The Mining Journal

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 293 .-- Vol. XI.]

LONDON: SATURDAY, APRIL 3, 1841.

PRICE 6D.

TO BE SOLD, BY AUCTION, at the Exeter Inn, Tavistock, on Monday, the 5th day of April neat, at Torse o'clock in the afternoon precisely, the following valuable MINING PROPERTY viz.:

Two 4sth shares in the t onystone Mines, in Lancashire.

Two 12th shares in the Charlestown Mines, in 8th Austell, Cornwall.

[Both these have been very productive and profitable concerns, paying liberal divisiends, of which there is good prospect of permanency.]

Foar 3sth shares in Bottle Hill Tin and Cop. er Mine, in F ympton 8t. Mary, Devonson to calculate, from the judicious course of management now adopted, on an increase in the dividends already paid.

Two 12th shares in 8t. Blazey Councils Tin and Copper Mine, 8t. Blazey, Cornwall.

[This is esteemed a very promising adventure; it lies in the vicinity of the most productive mines in the county; is at present making considerable returns, with fair hopes of increase.]

Three 12th shares in East Wheal Priendship Tin and Copper Mine, in Marytavy and Tavi tock, Devon.—[That this immediately adjoins the great Wheal Priendship Mine, an abundant in riches, may fairly be deemed a sufficient recommendation of it to the speculator; but it may be added, that its own prospects fully warrant the sanguine hopes of the adventurers to share in the wealth of its onighbour.]

its neighbour.]

Most of the shares are the property of deceased mining captains, and are sold for the benefit of their executors; their value would fully warrant a much more glowing statement, but the advertiser being satisfied to leave the capitalist to his own inquiries, refers, for impection, to the several captains and managers; and for further particulars to Mr. Physick, auctioneer, Tavistock.

GLANORGANSHIRE.—VALUABLE FREEHOLD ESTATE AND COAL MINESTO BE SOLD, BY AUCTION, by Mr. M. WHITTINGTON

(b) order of the mortgages, under a power of sale), at the Castle lam, Neath,
on Thursday, the 22d day of April neat, at Two o'clock in the afternoon, subject to
such conditions as will be then produced, unless previously disposed of by private
contract, of which due notice will be given, all that MESSUAGE or TENEMENT,
FARM and LANDS, commonly called or known as NANSTALLON, otherwise
NANSTALLUN, situate and being in the several parishes of Ystradgunias, in the
county of Brecon, and Cadoxton justa-Neath, in the county of Glamorgan, containing, by estimation, 160 acres, or thereabouts.

The situation of this property is well adapted for the erection of ironworks, having a plentiful supply of coal and iron ore upon the estate, with the command of
two fine streams of water. There are its seams of coal, containing, in the aggregale, forty feet, or thereabouts, the seams of from ore are also very productive,
and have been proved to be of a very rice quality. This setate is also of great value,
considered as the key to all the minerals under the Drim Mountain, several huadred acres in extent. The property is altuate at miles from the Neath Canal, at
Aberduiais, and three from the awanese Canal, at Yaiscedwin, in which place there
are communication by a railroad, which passes through the property, to the
neighbouring quarries of limestons. There is also a valuable right of communicaupon the Drim Mountain attached to the estate. A small piece of the wate
ground, containing sixty perches, or thereabouts, in extent, has been let for a term
of which eighty seven years are now unsuprived, at the annual rental of d'i, and
the estate will be aoid subject thereto. An abstract of the powers under which this
property is sold will be produced at the it e of asia.

For further particulars, and to treat for the purchase, by private contract, apply
to Mr. Mountagee Grever, solicitor, Cardiff; or to the auctioneer, Neath.

SOUTH WALES, in the counties of CARMARTHEN and GLAMORGAN.—Im-portant and va unite FRERHOLD ESTATES, containing about 75s acres, and also very valuable and extensive COLLIERIES of ANTHRACITE COAL, with rich asams of IRON ORE, held for long terms of years.

portant and va uable FREEHOLD ESTATES, containing assets on allowing also very valuable and extensive Collinguists. Collinguists of ANTHRACITE COAL, with rich seams of IRON ORE, held for long terms of years.

TO BE SOLD, BY AUCTION, by Measrs. BRAY and SON, at Garraway's, on Wednesday, the 28th April, 1841, at Twelve for One o'clock, in three lots.

Lot 1.—The very valuable and desirable FREEHOLD ESTATE, called the THORNHILL ESTATE, with the RIGHT OF WORKING COAL under about 1500 acres of fand, including this estate and other lands adjoining. Thornhill is situate in the most desirable part of Carmarthembire, in the parish of Liandilie, distant from Swanses fifteen miles, from Carmarthembire, from the port of Liandilie, distant from Swanses fifteen miles, from Carmarthem thickeen, from the port of Liandilie, distant from Swanses fifteen miles, and contains 404 acres in a ring fence. On this estate in a neat Cottage Ornec Residence (one mile from the mail coach road from Birstott to allif rid, is which the pro-citor has resided many year—if contains four best bed chambers, two servants' fall, two pariours, hall, anternoon, large liftchen, and servants' hall, with all other necessary and convenient offers, well supplied with water, and continguous to it is a large and convenient farm yard. The COLLIERY, the principal works of which are ultimate at Cwm Coch, shout one mile from the residence of Thornhill, will be found to be one of the most valuable in the kingdom, combining a large district of country, with uninterrapted way courses, an enormous body of coal, entirely level fity, eight working and air pitalaiready such, and railway communication established with a good port and floating dock, distant fourteen miles; there are ten good workable seams, from two to mine frest in thickness, of the very best species of antiractic coal, the superiority of whice for making iron in now fully established. The present state of L is colliery is such, that 100,00 those on good provided in the provided of the residue of the te

railway named in lot I passes within about 2-0 yards of the principal working shaft of the collisery.

Loy, 8.—A very valuable FREEHOLD ESTATE, situate at Loughor, in Glamor-gaussitire, containing 175 acres of the richest marsh land. It is bounded on one side by the navigable River Loughor, and is in the immediate vicinity of the town, in a very rising mineral district.

Particulars may be had of Messes. Bicknell, Roberts, Finch, and Neste, 17. Lincoln's Inn. Britist, 1 York Biotel, Bush, Carmarthen, Mark worth Arms, kwannes, Bush Inn. Britist, 1 York Biotel, Manchester, Hennick Wester, Browningham, Eschange, Liverpool; Royal Hotel, Edinburgh, Boat's Head Hotel, Glaspow; Royal Hotel, Dinnice; Tontine Hotels, Sheffield, Royal York Biotel, Sudhampton; and all Messes. Bray and S-u's offices, 2bs, High Holborn.

The property may be visced on application to Mr. Jacob Davies, at the Cruss Hands Ion, or at the house at Thershill.

TO BE SOLD, BY AUCTION, on an early day, unless dis-posed of by Private Tresty, all the valuable COLLIERY ENGINES and MACHINERY new to use at ARKLINGTON COLLIERY, near Manchester, com-

MACHINERY new in use at ARKLINGTON COLLIERY, user Manchester, comprising reOne large pumping engine, cylinder 76; inches diameter, and, by the usual estimation, speward of Joh horse power, with three lifes of pumps, working hervels
16; inches diameter inne of which is of breast, now pumping water they seek,
three large circular hollers, with discs through them, and everything necessary
to so large an engine—in excellent working condition.

One atmospheric engine, with two pinners of inches diameter, now pumping water letyards deep, with two lifes of pumps, round boiner, and every other requisits.

One winding-engine, is horse power, with winding apparatus—flore and Co.

One 16 horse Wording-engine, not in one.

One 6. horse bigh pressure engine, with machinery and rupe for winding up as inelined plane, about Jun yards in length.

The cultway and twenty-six large waggoes, now used for conveying the conist from
the colliery to Nechdela Canal, with the hearsche and thouts, about Jin 6 yards
in length, and of the same width and construction as the pointer relivene.

In Iringth, and of the same width and construction as the public railways. Painteen b also for carrying coals to Mannhaster, aline of which are nearly new, having been built at the collery, of the rest materian and workman chip. A large quantity of cast from pir rails and waggess, of the less construction. Two collects, with their gener, and our cards, together with all the innit and materials used about the concern. May be thereof the concern. May be thereof also from Manchester, on the road to Rockshile.

TO BE SOLD, BY PRIVATE CONTRACT, that extensive

O BE SOLD, a VALUABLE COLLIERY, held under leases

TO COAL and IRON MASTERS-The GELLYHIR ESTATE contains upwards of twenty veins, varying in thickness from two to air feet such of superior coal, with an abundance of rich iron ore, covered by a surface of more than '400 acres, and is advantageously situate with regard to the ports of swanses and blanelly, and the navigable river fluory. It is confidently subsuitted that this estate contains the richest seams of coal and iron ore in the South Wales mineral district, and the proprietor having determined on allowing this hitherto anyroductive part of '1s proporty to be worked and brought into full operation, is willing to receive PROPONALS for a lease or leases of the minerals from any company of gentlemen who may be desirous of availing themselves of the opportunity now afforded of investing capital at an immense and certain profit.

Further particulars may be obtained of the proprietor, N. Cameron Esq., Swanses of the D. S. Biockett, 6°, Lincoln's Inn-fields, London; and of Mr. Charles liadley, Manor-office, Chellenham.

PLACK-JACK.—FOR SALE, at Moorswater, near Liskeard, at the head of the Liskeard and Looe Canal, about TWO HUNDRED TONS of BLACK-JACK, from Wheal Gill Mine. For price and other particulars, apply to Croach and Dymond, Pensauce—Pensance, March 70.

CONSOLIDATED COPPER MINES OF COBRE ASSO-CLATION.—Notice is hereby given, that a DIVIDEND of ONE POUND per share will be paid to the holders of certificates in this company, at the offices of the a-ociation, 25, Austin-friars, on and after the 6th of April next, between the hours of Eleven and Three o'clock. The proprietors are requested to leave their certificates at the office for examination three clear days before the day of payment, 28, Austin-friars, March 30.

WILLIAM LECKIE, Sec.

GREAT WHEAL CHARLOTTE MINING ASSOCIATION. REAT WHEAL CHARLOTTE MINING ASSOCIATION.

The resolutions for raising additional capital, having been resolved upon at the special General Meeting, held for that purpose, on the 13th of March, and confirmed at another Succial General Meeting on the 28th of March the directors therefore give notice, that every holder of Great Wheal Charlotte Mining shares is entitled to the pre-empition of two new shares for every fee nois ones, on the PAY ME-T of FIVE SHILLINGS per share, on or before the 14th April, and the same sum on the 16th May, the 28th June, and on the 31st July next, subject to profits, rules, and regulations, of all other shares on which Fifty Shillings per share has been paid.

Laurence Pountney hill, March 26.

MPERIAL BRAZILIAN MINING ASSOCIATION.— Notice is hereby given, that the TRANSPER BOOKS will CLOSE on the 14th inst., and RE-OPEN on the next day after that of the General Newton is May, of which due notice will be given.

Winchester House, April 1.

THE MINERS' COMPANY.— The court of assistants of the Governor and Company of Copper Miners in England hereby give notice, that the ANNUAL GENERAL COURT for the election of governor, and assistants, for the year ensuing, will, pursuant to charter, he held at the office of the company, 2%, Old Broad street, on Turaday, the 6th of April neat, at Tweive o'clock precisely. They further give notice, that such General Cossit will illewise be on Special affairs.

Office of the Governor and Company.

W. INGLIS, Secretary.

WHEAL WALLIS MINE.—Notice is hereby given, that the directors of the above mine have this any made a CALL of FIVE RHII. LINGS per share, to be paid into the Manchester and Liverpool instrict Bank, on or before the oft day of May next. The sonaging director is empowered to endorse the scrips on production of the banker's receipt.

By order of the diffictors,

M. Market street, Manchester, March 31.

W. PIPE, Managing Director.

BAHIA STEAM NAVIGATION COMPANY.—Notice is A HITA S.I.EANI. NAVIGATION COMPANY.—Notice is bereby given, that the ADJOURNED GENERAL MEETING of the rest June, isset, of the proprietors of this company, will be held at the George and Vulture Tavers, George yard, Lombard-street, on Monday, the 5th day of April, (sat, at Eleven for : weive o'clock at noon, to receive the further report of the directors upon the affairs of the company, and to sleet two directors, in the place of Messre Richard Thornton Brown and Joseph Lidwell Heathorn. Particulars as to the qualifications, &c., for the direction, may be obtained at the company's office.

By order of the board,
CHAS. RAUNDERSON, Hon. Sec. and Director.

DAHIA STEAM NAVIGATION COMPANY.—Notice is hereby given, that, in consequence of the failure in June, 1640, to skeet directors in the place of those going out of office by rotation, a sPECIAL ORNERAL MEETING of the group rot of office by rotation, a sPECIAL ORNERAL MEETING of the group rotation, a sPECIAL ORNERAL MEETING of the group rotation, as special or director tween, George-yard, Lombard-street, on Monday, the 1th day of Agust, 1841, at Eleven for Twelve o'clock at muon, to follow the Adjourned June Meeting, for the election of two directors, vice Measer John Benson and Lewis Manase, who go out by rotation, but who being eligible, mader the provisions of the Doud of Settlement of the company, offer themselves for re election.

Notice is hereby further given, that, in consequence of the resignation of the two-molitors, Mesers, H. C. Dakeyne and David Canman the latter of whom would otherwise have gone out by rotations, the same Rapedial concernal Meeting will alway be loted for the purpose of appending two auditors to fill such offices respectively. Particulars as to the qualifications, Acc, for the direction and auditorable, may be obtained at the company's office.

CHAS. BAUNDERSON, Hon. Sec. and Director.

Lombard ofreet, Chambers, Clement's lane, March 12.

N. O R.T.H. K.E.N.T. R.A.L. W.A.Y.—EVERY INFORMATION.

NORTH KENT RAILWAY,—EVERY INFORMATION relative to this undertaking may be OBTAINED by application at the office, So. 42, Lombard street, between the bours of ten and Front orbinsk dully.

NDREW SMITH'S PATENT WIRE ROPES, for standing

A NDREW SMITH'S PATENT WIRE ROPES, for standing rigging, lightning conductors, shropping of thoris, mining, railway, and general preprinter, shrout half the size and wrighted of homogen ropes, and as per conductor-species, a found half the size and wrighted of homogen ropes, and as per conductor-species, and the office, i.d., Old Breast advance, may be seen, and every inhimitation chead-ond, at the office, i.d., Old Breast advance; opening against a street, Lair, contar aquare, meandacturer, Milli wall, Popine, and also of the for inwing against a Refuertness and Co., 12, Gorew Pianass. Livergrand.

Matthias Dance.

Joseph Bothway Pipmouth, Joseph Bothway, Joseph Bothway, Pipmouth, Joseph Bothway, Pipmouth, Joseph Bothway, Pipmouth, Joseph Bothway, Joseph Bothway, Joseph Bothway, Joseph Bothway, Joseph Bothway, Joseph Bothway, James Childe and Co., 12, Grant Pipmouth, Linth, Contens and Young, Belled, James Kilde and Co., Glasgow, James Gome, The manufacturer of the standing rigging in her Majordy's Navy, and in a great momber of sucrebases, delays, for opening a few years, and is giving the high-rest of the hisophism, but reference is enganticity make to the standing of girls of the hisophism, but reference is enganticity make to the standing of the hisophism, but reference is enganticity make to the standing of the hisophism, but reference is enganticity make to the standing of the hisophism, but reference is enganticity make to the standing of the hisophism, but reference is enganticity make to the standing of the hisophism, but reference is enganticity and to the standing of the hisophism, but reference is enganticed a distance mounty open to the standing standing of the hisophism, but reference is enganticed a distance mounty open to the standing standing of the hisophism, but reference is enganticed as delawate mounty open to the standing standing and the standing standing and a standard as which the application.

BRITISH IRON COMPANY.—At a Meeting of the United

Sharcholders of the British from Company, held at J. Castle-ow, Waihrook, pursuant to advertisement, on Friday, the 2d April, W. J. RICHARDSON, Eq., in the chair. The following resolutions, having been duly moved and seconder nously carried; a liberal subscription was immediately entered in a sid of the existing fund of the united shareholders, and the prote-he first resolution signed by the holders of a very considerable in

OPENING.—GREAT NORTH of ENGLAND RAILWAY. The public are informed that the GREAT NURTH of ENGLAND RAILNAT was OPENED from YORK to DARLINGTON, for public traffic, on Wedneslay, the 'lat of March.
The trains will depart at the following hours :PAGN DARLINGTON TO YORK.

4 th A.u.—Taking passengers for London, Derby, Birmingham, Sheffield, and

3 di a.u.—Taking passengers for London, Derby, Birmingham, Sheffield, and Manchester.

8 a.m.—Taking passengers for London, Derby, Birmingham, Sheffield, Manchester, Leeds, Selby, and Hull.

13 30 s.m.—Taking passengers for Derby, Sheffield, Manchester, Leeds, Selby, and Hull.

3 s.m.—Mail, taking passengers for London, Derby, Leicester, Birmingham, Sheffield, Manchester, Leeds, Selby, and Hull.

6 s.m.—Taking passengers to York.

FROM YORK TO DARLINGTON.

d a.m.—Bringing passengers from York.

7 20 a.m.—Mail, bringing passengers from London, Leicester, Derby, & Sheffield, 9 23 a.m.—Bringing passengers from London, Leicester, Leeds, delby, and Hull.

2 3 - r.m.—Bringing passengers from Monchester, Leeds, delby, and Hull.

4 r.m.—Bringing passengers from London, Birmingham, Porby, Sheffield, Manchester, Leeds, Selby, and Hull.

Ludil farther motics, passengers will only be booked as far as York, where the carriagen are changed.

Lutil the 4th of april, 1441, the London mail trains will leave York at 8 13 a.m., instead of the hours stated in the time takin.

Derby Bertween YORK AND DARLINGTON.

PARES BETWEEN YORK AND DARLINGTON.

Panengers :-- Let class, 17s., 26 class, 1s.

Carriages :-- Cin two wheels, 7ss., 1 on four wheels, 25s.

Horses :-- Con, 25s., 1 way, 2ss., three, 26s.

Par les riding in their own carriages, and children under seven years of age, at

NEWCASTLE-UPON TYNE AND CARLISLE RAILWAY.

times of certain new new committee of	A LAMIN A PER AND AND A PERSON NAMED IN COLUMN 1
Leave Newsastie and Rechaugh.	Arrive of Carthele.
Mixed Mail. Half past 5 morning. Quick of book Miged () n'elook Quick Mail Half past 5 sternoom Mixed 5 o'clock Mixed 5 o'clock Mixed Half past 6 for Hapdon Bridge. RUNDAYS. 9 o'clock morning.	13 n'elsek Haif past 8 Baif past 8 Haif-past 9
b o'clock efferment	Quarter part #
Leave Carticle. Arrive at	Newcastie & Radbrugh.
Mind Mail Half part 5 morning Quick Mail is s'sbork Mined To'sbork Mined Saif part I afternoon Quick 5 o'sbork SUNDAYE.	If of clock Half part 5 Half part 6
orthod meaning.	

har Carthele will arrive there in these for the Ton o'clord frain, and reach Newmadde at One o'clord, r m. chica sering, in either reas, analy a day, as compared with travelling by the ordinary fronts. Places may be occurred by the exceeding and erroring made, and by the North Botton coach for Lancaster, on application at the Rollway Station, Strong tis, Newcastin open Type, March 16.

THE PATENT SAFETY FUSE, AND FOR SCHMARING. Conversel the same transmitted of the rate of the same transmitted of the same tran

LAW INTELLIGENCE.

SOME OF THE ADVANTAGES OF BECOMING A DIRECTOR.

SOME OF THE ADVANTAGES OF BECOMING A DIRECTOR.

MIDLAND GREUET—WARNICK, MARCH 26.

BOULTON SNAFF.—The pisioniff had been some time ago a respectable surgeon in good practice at Leamington. In 1835 he had the saisfortane to become a member and a director of the Leamington Joint-Stock Banking Company, then formed with a nominal capital of 200,000L, divided into 10,000 shares of 201, per share. In 1836 this bank was in difficulties, and the directors and managers borrowed 5000L, for 4000L of which the plaintiff gave his bond jointly with two other persons, and the banking company gave at the same time a promissory note for the 5000L. When that note became due the bank could not pay it, having stopped payment, and the London and Westminster Bank, in London, to which the note and bond had come, sued Mr. Boulton, who defended the action unassisted by the company, and recovered a verdiet and judgment against him, and his effects were sold under execution. For the sum of 3947L, including the costs, thus recovered from him, and also for damages, he brought his action against the public officer of the taid bank. The defence was various, but chiefly that Mr. Boulton owed the bank, for calls on a large number of shares held by him, and that he not only would not pay these calls on his own shares, but encouraged other share-holders not to pay their calls. The defendants also charges the plaintiff with fraud in transferring his shares at a time when he was chairman of the board of directors.

Lord Angoern told the jury that he was of opinion the transfer of the

Lord Animorn told the jury that he was of opinion the transfer of the chares was not legal, though there was so fraud, and that this being an action for damages, the debt due by calls on the shares could not be set off except against so much of the action as sought to recover a balance due to

the plaintiff on his banking account.

A great number of issues having been ruised in the pleadings, many witnesses were examined on both sides, and various points of law were strongly
contexted.—The jury found a verdiet for the plaintiff for the sum which he had to pay by force of the execution issued against him by the London and Westminster Bank, but they did not think him cutilied to any damages.

SPECIFICATIONS OF RECENT PATENTS.

Walter Richardson, gent., Regent street, and George Mott Braithwaite, gent., Macor house, Cheisen, for improvements in tinning metals (communicated by a foreigner). March 17.—This invention relates to a mode of combining nickel and iron with the, in order to improve the tinning of metal surfaces. The proportions of nickel and iron, mixed with the tin, in order to produce the best tinning, are—ten onnes of the best nickel, and seven ounces of short-iron, to ten pounds of the.

The temperature at which nickel is fusible being higher than that required to being thin into a state of fusion, it is accessary to prevent the tin as it melts from evaporating (as it is essential that the two metals be put into the same crucible); this object is attained by adding to ten pounds of the composition one counce of borns and three ounces of psunded glass; the heat soon causes the borns to bubble up, which augments its volume, and causes it to units with the metals, causes them to rise to the surface, where they form a crust, which prevents the action of the air on the metals, the fusion is compilated in about half on hour, when the composition haven off through a hole in the crust. In tinning metals with this composition the workman proceeds in the ordinary manner.

Paul Henonic entires of Paria but now of Clement's lang.

Paul Hennnic, solicitor, of Paris, but now of Clement's-lane, London, for remeats in the soustruction of governors or regulators, applicable to engines and to other engines used for obtaining motive power, March Claim first.—The construction and arrangement of an inflated reservisinder or receiver, supplied with atmospheric air, gas, water, or other, by means of the moving power, the supply of which it is designed to

voir cylinder or receiver, supplied with atmospheric air, gas, water, or other liquid, by means of the moving power, the supply of which it is designed to regulate.

Claim second.—The combination of such inflated reservoir or other governor, with a vano or damper in the furnace flue, by which the intensity of the fire is requisited according to the speed of the engine or the supply of steam, which damper may be variously constructed and placed in the furnace flue, by which the convenience or locality of the engine to be governed.

Claim third.—The peculiar construction of the movemble shuttle, or water-gala for hydraulic wheels, together with such modifications of the convenience or locality of the engine to be governed.

Claim third.—The peculiar construction of the movemble shuttle, or water-gala for hydraulic wheels.

The required in peculiar localities, by which the operation of this or other regulators is rendered variable to hydraulic wheels.

The regulator is a frame containing a believe or clastic reservoir, connected with two similar pieces of believe underescath it. They are formed of leather, and are secured to horisomatal plates or bases by from straps. The middle plate which separates the reservoir or upper believes from the lower believes is fixed, but the two other plates, viz., the top plate of the reservoir, and the plate that separates the two believes, are movemble. A red or central shaft rises from the top plate, and to it is fastened a chain, which, passing ever a pulley, is attached to a sector precided with a counter weight. This sector is connected with the throttle valve, and governs the distribution of steam. A second chain or cord, attached to the central shaft, is carried over other pulleys, and transmit to a vertical shaft and register placed in the flue of the furnace in proportion to the amount of steam consumed.

To the base of the machine are firmly attached two supports, which receive the formace according to the clavation or do, receive the formace in the safe provided with a

were plate. By this means the air is alternately forced durward by each of he beliums to the received.

Thus the principal function of the regulator is to accumulate in a common eservoir the air of two or more believe, in order that the top plate lifted by a pressure of the air may communicate (according to the variation of the people to be regulated) an according or descending motion to be central shaft, which communicates by means of conies, &c., with the areatic varie of the sharest or after gate of the hymselfe whole.

The energy of air from the respective is regulated by a valve eafely adjusted.

The form of the water gate is either rectangular, curved, or cylindrical.

GREAT NORTH OF ENGLAND RAILWAY.—This railway (which cor-ries forward the communication from York to Darlington, and completes the chain from the metropolis to the county of Durham) was opened for the conveyance of passengers on Wedusenbry last, the Mat all. The 6th of April being fixed by the post-office authorities for the sevelocation of the mails from Landon to the exist, and the Great North of England line being included in the sail content. the mails from London to the courts, and the Great North of England inc. being included in the mail contracts, all places as far north as Darlington, and indeed beyond, will share in the benefit of the increased rapidity of

MARYPORT AND CARLINGS RAILWAY .- We are informed that the Dephierade coal-field to Aspatria, will be append on Easter Monday.

This will affind many advantages and finishing to travellors and to the
people of the district; and the company intend shortly afterwards, we
seen, to start an omnobine from the redread of Aspatria to Wigton and Carlinia, for the ayundy conveyance of punemours and goods. These things show that the genuine sports of enterprise new assesses the promotes of this undertaking, which we expect to see go forward to completion this a regulity and accome that will surprise its opponents, but affect the bases driight and gratification to its namerous fittends and the public at

Lawren or Dave .-- At Section and London, the longest day has als And a half house. At Stockholm and Upusi, the is a half house, and the shortest free and a half. At said Stottin, the hongest day has accordant At Hamburgh, Dunt the said boson, and the shortest two and a half. At Hamburgh, Shan-th, and Boctio, the longest day bear recentres house, and the shortest press. At St. Petersburgh and Toloniak, the longest has circtum, and the shortest five house. At Torono in Finland, the longest day has tempty-one house and a half, and the shortest two and a half. At War-darburs, in Nicrosy, the day hasts from the 21st of May to the 22st of July, without mescreption; and in Spitchergon the longest hasts those mentles and a half.

ON THE CONGELATION OF ROCKS.

A very interesting discussion took place on some appearances connected with the congelation of rocks, at the last mouthly meeting of the Manchester Geological Society.—Dr. Black having recapitulated the principal points in a paper submitted by him at a previous meeting, produced an explanatory diagram, and then noticed the disintegration of the soft andstone into laminus, especially that species which was cut up into sandstone slate, which was caken from the upper surface, split up by the workmen, and cut into proper shape for roofing; but independently of this, he said, there seemed to be a change which took place in the surface of the rock, after having beer-raised or lifted up from the original bed, as if it had been subjected to a severe degree of congelation, intermitted with thawing, till the superficial beds of these strata were loosened one from another, and subsequent thawings made them settle more or less, and very likely a succeeding freezing would still further enable the water to percolate through the interstices, and the stratifications there were found tonned about from their vertical axis, and all exhibiting angular projections. Now, he attributed the cause of these appearances to have been a great body of water moving, at some distant parried, over the surface of this rock with considerable force, but not with sufficient velocity to have tone the beds to ac, as they were found in several directions. These were altogether of the same nature as the subjacent strata, although at first sight they might be supposed to have been rocks brought from a distance; but, upon examination, he found these disintegrated portions to belong to the unother rock below. This body of water had brought with it more or less detritus from other rocks, such as some of the sandstone rocks, the edges being rubbed off. He had also found little stratifications of coaly matter, and in one or two instances transported coal formation of coaly matter, and in one or two instances transported coal formation to belong the second o

Herhe's work showed such an appearance are such as the attributed it entirely to the did not there say anything of congelation, but attributed it entirely to the outface being covered with water. In conclusion, Dr. Black read a pasange, referring to similar appearances, from Mr. M. Langhain's Notes to accompany a Geological Map of the Forest of Denn Cool. Field.

Mr. Bo was a said, that he thought the appearance so ably described by Dr. Black was not difficult to account for. It was well known to soologists, that all, or very nearly all, sedimentary rocks passessed initiate lines of stratification; but that these were frequently not apparent, especially in the older formations, till the surface had been for some time initiate have and exposed to atmospheric influences. The consolidation was so great that the divisional planes were not perceptible till the rain, the froat, and the disintegrating agents in the air, had penetrated within and between the beds, and, by axilising the iron in the stone, had given them a brown rusty hue. He thought, therefore, that large blocks or portions of the rock in question had, in the first place, been thrown out of their natural and conformable position, probably by the croive action of strong currents; and that afterwards, when left dry, the rain, froat, &c., had acted on these blocks, and separated them into many parallel divisional planes or layers. These were no other than the lines of original bedding, which appeared to ilvereg upwards in series from the general direction of the stratification, only because the blocks had been disturbed while saties, before they, the bris, were separated; and the latter retained their parallelism, because they were subsequently buried up usier amass of disturium, which protected them from farther derangement. As this was a very curious subject, and intimately connected with the external characters of rocks, Mr. Blowman shortly alithed to the natural surparation of great masses of rock by a series of joints and cleavage, the action, but gen

to Muttenes, the shale was perforating those funcths of the scale. He agreed with Dr. Hinck in thinking those apparenesses owing to the action of water after the body of root had been raised from its original position.—Dr. Blacks said, one thing which had been raised from its original position.—Dr. Blacks and, one thing which had him to suppose that this disintegration was not owing to more weathering, was the fact that the disintegrated hodizes were in a very deep layer, pre-haps two feet from the top to the hottoon.—Mr. Bowman.—Of course, the softer the rook the designer the disintegration.—Dr. Blacks asid, the rock was not so very soft.—It was as hard as rooting there. The issuications were this, from half an icet to an inch generally. The deposit above had been there for ages, being made, probably, at a period when the temperature of this country was high, compared with what it now is. These could have been an eventhering since the tertiary pried.—Mr. Bow is. These could be not a first analytic to freed could not have acted subsequent to the deposit.—Dr. Blacks said, the more filtration of the water could never have shifted the pieces, ast, therefore, the whole disintegration and comornal seast have taken pieces, and, therefore, the whole disintegration and common must have taken place before that deposit was made. He mentioned that he had seen an example of this sect on the new Holton and Printon Hailway, upon the edge of the section.—Investors, with very few exceptions, to electrical discharges."

These experiments are said to have been made by M. Tassin ten years the line.

largic—was delivered by S. Moyle, Esq., of Borrige, at the Truce Institution, on Mossley w.ek. The lecture commenced by speaking of the vast importance of the science of metallungic chemistry to this country and expected his regent at the fellowing chemistry to wast importance of the acience of metaliungic chemistry to this county, and expected his regret at the failure of the proposal for establishing a mining achood, for instruction in this and the kindred actences. He then rescuested the various copper over, and salts of copper found is Currwall, and described the principal traits for their detection. On these a great many experiments were performed; and there were also exhibited modes of extracting tree, bend, and after, when held in substine. Having shown the means of detecting those metals, in chemical solutions. Mr. Moyle explained how their presence, as well as that of arectal other deleterious substances, may be preceded a articles of fined, strongly arging the importance of attention to this means of preserving health. The presence of several poisonment or injurious substances was shown by experiment, in water, and in adultorable broad, and wine. water, and in edulterated bread, and wine.

EXPLOSION OF STEAM-BOILERS ATTRIBUTED TO ELECTRICITY.

We mentioned, on a former occasion, in connection with the discovery of the development of electricity from effluent steam, that M. Tassin, an engineer in Belgium, had many years ago conceived the notion that electricity is the cause of the explosion of steam-boilers. We find, in a late Number of the Fanal, a more full account of the explosion of the steamboiler which M. Tassin adduces as confirming his opinion. We translate the account as an instance of the extraordinary effects produced by the expansive power of steam; and as an instance also of ingenious, though, in our opinion, fallacious modes of accounting for these effects, by the assumed operation of other causes. Now that the discovery of the development of electricity by the escape of high-pressure steam is exciting much our opinion, fallacious modes of accounting for these effects, by the assumed operation of other causes. Now that the discovery of the development of electricity by the escape of high-pressure steam is earling much attention, the cause assigned by the ingenious writer in the Fanal may appear to be more feasible than it would otherwise have been considered. For our own part we attach no weight to it whatever beyond that of a curious speculation.

otion entertained by M. Tassin, that gradual pressure ca burst an iron vessel, will not be borne out by other experiments. It is very probable that a boiler may be so put together that the rivets and joints may be the weakest parts, but it is also possible for it to be so con-structed that the iron will rend before the rivets give way. We have ourselves seen a vessel rent asunder by the gradual pressure of a force

M. de Marotte possesses a large distillery at Vieux Waleffe, which is worked by a small steam-engine of 8-horse power, and, consequently, has a boiler in proportion. The boiler is a cylinder, four feet in diameter and eighteen feet in length, with a flat bottom, and through the middle of it there is a large fire flue. This form of boiler is much used in Belgium,

and which gives general satisfaction.

" Some minutes before the explosion, the proprietor, examining the manometer, which indicated two atmospheres and a half, desired the stoker to raise the pressure of the steam. He, however, replied that it was suf-ficient for the work that was required at the time. Everything in other respects was acting as usual, and there was an abundance of water in the

Scarcely had M. de Marotte reached his house before the whole dis-"Scarcely had M. de Marotte reached his nouse before the whole distillery was destroyed by a tremendous explosion. The boiler was separated in two, on one side the internal flue, about fifteen inches in diameter; on the other side, the main part of the boiler to which the other half of the bottom was attached. The flue, and the half bottom of the boiler attached to it, threw down the base of a chimney nine feet thick, and the walls of four other different buildings that were in its course.

"The main part of the boiler flew off in an opposite direction, passing.

"The main part of the boiler flew off in an opposite direction, passing, in the first place, through the wall of the engine-house, twenty-three centimetres thick—broke the iron beam of the engine as a cannon ball would have done—broke all the machinery that intercepted its progress—over-turned the other supporting wall of twenty-three centimetres of bricks— and also the wall of a barn built of bricks, a metre in thickness. But turned the other supporting wall of twenty-three centimetres of bricks—
and also the wall of a barn built of bricks, a metre in thickness. But
what is still more extraordinary is, that this barn, of the dimensions of
ten metres, and heaped up with sheaves of corn to the very roof, was also
passed through by the main part of the boiler, which pierced the wall opposite, of equal thickness to the preceding one, but in which, however, it
stuck. But this is not all. The bottom of the boiler, to which was attacked a small portion of the flue, was blown from the body of the boiler,
and killed three ozen in a stable which intercepted its progress; even
this was not enough to stop the course of the fragment, which shattered
two strong woodes posts twenty-three centimetres thick. The external
wall of the stable did not arrest the progress of this part of the boiler,
which dashed into the middle of the neighbouring pond.

"All this was the result of electricity. With respect to the effect produced merely by the explosion of steam, a workman who was in a room
immediately above the boiler was hurled through the roof to a very great
height, and falling in the yard on a heap of sand was killed on the spot.

"Another workman in the interior of the brewery, which was at a considerable distance from the boiler, and who was looking towards it, was
thrown to a distance of fifteen feet against an open door by which he supported himself. This man declares that the boiler appeared surrounded by
vivid lightning.

"It is the progression of natural philosophers to explain this phenomenen."

vivid lightning.

"It is the province of natural philosophers to explain this phenomenon, which renders all the methods of security hitherto invented to prevent explosions unavailing, and particularly the one which has been adopted in Belgium, for the security of our neighbours, which consists in building a party wall two metres thick. We will bazard the following explanation: party wall two metres thick. We will bazard the following explanation:

— Every decomposition or change of condition in a body evolving electricity, the evaporation of water must also produce it; but as steam-boilers are never entirely insulated, the electricity returns to the general reservoir, as soon as it is formed. But is it not possible that the great number of copper pipes in connection with the boiler in this distillery may have served as reservoirs of electricity that was accumulated within them? Is it not likewise possible that a workshop, paved with asphaltum, might have the effect of insulating all the tubes, boilers, stills, &c., which are used in a distillery, and that hence all these apparatus charged with electric fluid at the highest tension may have caused the terrible explosion, the consequences of which we have just related?

"It must be observed, that as the discharge took place from the interior of the builer, it was not the lightning alone that produced the effect, but the lightning armed, as it were, with the two portions of the boiler. The lightning alone certainly could not produce such effects.

"If this hypothesis be sound, we must correct all our notions, and all the methods at present adopted for obtaining security against the explo-

The lightning alone certainly could not produce such effects.

"If this hypothesis be sound, we must correct all our notions, and all the methods at present adopted for obtaining security against the explosion of boilers; for, according to what follows, it would appear that all such explosions are the effects of electricity, and are never occasioned by a progressive pressure, to guard against the effects of which such great and useless precaution is taken. Some experiments, made by M. Tassin, tend to prove this assertion. That engineer is now persuaded that it is impossible to burst a boiler by progressive pressure.

"Having filled a globular boiler of sheet iron, a quarter of an English inch thick, with water, he proved it with a force pump to thirty-six atmospheres of pressure. Having arrived at that point the manometer began to fall, notwithstanding the pump was kept at work. He observed that a fine rapour causied from every part of the boiler, and fell down like a mist. This effect is explained by the extension and opening of the different layers of iron, and the stretching of the holes of the rivets, which become oval during the expansion of the iron plates, and allow more water to escape than is forced in by the pump. M. Tassin perceiving that he could not burst his boiler made with thick from plate, fixed over the man-bole of another boiler, by a number of acrows, a plate of iron, only a line in thickness. When it was subjected to an ensemess pressure, the iron plate became coaves, the holes of the screws were ensured.

He substituted a thin absect of timed iron, with the same result; so that this engineer is new coaversor, that owing to the tensestive of iron, it is immensible for an environments, that owing to the tensestive of iron, it is immensible for an environments, that owing to the tensestive of iron, it is immensible for an environment over to take other. it could be pumped in. He substituted a thin sheet of tinned iron, with the same result; so that this engineer is now convinced, that owing to the transity of iron, it is impossible for an explosion ever to take place from a gradual increase of pressure in a boiler. He is likewise of opifrom a gradual increase or pressure in a worse. He is access of water into an emphysicion can result from the gradual introduction of water into an empty and red-hot beiler, because he has many times repeated that dangerous experiment, the effect of which has been only to produce a contraction of the surface when couled. He, therefore, refers all explanations to the contraction of the surface when couled.

JOINT-STOCK MANIA IN BREGIUM .- It appears by Mr. E. Tennent's JOINT-STOCK MANIA IN BRADIUM.—It appears by Mr. E. Tennent's new work, Bejriam, that there has been a manis for joint-shock speculation in that country searcedy equalited by the bubbles of 1825 in Great Britain, and attended with equally reinean results. It will accreely be believed (though it appears to be a fact) that between 1833 and 1838, 150 or 160 companies actually invested 350,000,000 f., or about 15,000,000 f., as about 15,000,000 f., as about 15,000 oldef, in appearations—for insurances, mines, machine making, public works, export associations, glass manufacturies, sugar refineries, cotton and fax mills, printing, beweing, in short, every imaginable undertaking that could be described in strip. The manis neighbors with some similar undertaking perjected by the King of Holland, but which, being productly conducted, were moderately successful.

Coas or Innea.-We learn, by the Julie Review, just re a large vessel (the Clerendon) is susplayed to convey coal from Merqui to Singapore, and that the coal is fully expected to assure; the colliery, it

MINING CORRESPONDENCE

FOREIGN MINES.

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REAL DEL MONTE MINING COMPANY.

[The statement of accounts that appeared under this head, in our last, was that of the Bolanos Company; the error, however, would at once be perceptible to the reader, from the nature of the despatches that follow. We are happy to state, there has been a mosthly increasing profit since October, and that the total losses of the company for the year do not exceed \$70,000.]

BOLANGS MINING COMPANY.

[The following accounts were erroncously printed, in the Journal of last week, as those of the Reni del Munte Company; we here repeat them, as the most satisfactory course for both companies.]

General Summary of Accounts for 1840.

January February	Mes. 5948 6:56	4	ar.	41,650	8	0	45,596	rs.	6			0
	6:54	3			8	0	45,596	- 1		A WAS	46	- 40
	6:54		6	5-5 A 115								100
				362,462	- 6	2	67,195	3	2	14,752	à	0
March		- 4	6	36,344			51,463					3
April	4008		2	33,812	7	0	\$0, 407	2	6	16,194	3	6
May			4	36,254	1	3	54,937	6	3	18,681	a	
June	2-2-2			34,308		0	51,877		6	15,564	7	6
July			4	22,607	3	1	40,678	8	1	18,067	4	
August	5.500	1								19,720		2
September			2	37,094	3	6	35,994	3.	6	19,896		63
October	5,000	3	6	48,585	0	2	67,6/3	1	4	19,035	0	7
November			4	38, 195	2	\$	54,248	2	7	16,052	3	2
December		-		[Not re					,			

ENGLISH MINES.

ENGLISH MINES.

HOLMBUSH MINING COMPANY.

March 29.—I beg leave to inform you that Hitchina's shaft is sunk to a depth of \$1 fens. I ft.—ground not so favourable for sinking. In the 110 fathom level west the lode is six inches wide, of mundic and spar, intermixed with copper ore. The lode in the 100 fathom level west is still very productive, being I ft. 6 in. wide, and worth 35l. per fathom. In the interty fathom level west the lode is 1 ft. 3 in. wide, and worth 12l. per fathom. The rise in the back of the eighty fathom level, against Hitchina's shaft, is still in favourable ground. In this level, east of the engine-shaft, the lode is 1 ft. 8 in. wide, composed chiefly of mundic and spar. The lode in the eastern stopes, in the back of the eighty fathom level, is 1 ft. 4 in. wide, and worth 50l. per fathom. The lode in the western stopes, in back of ditto, is two feet wide, and worth 35l. per fathom. In the seventy fathom level, eastern stopes, the lode is twenty inches wide, and worth 30l. per fathom. The lode in the western stopes, in back of ditto, is eighteen inches wide, and worth 25l. per fathom. The cross-cut to Hitchina's shaft, at the sixty fathom level, and rise in back of ditto, against Hray's shaft, at the sixty fathom level, and rise in back of ditto, against Hray's shaft, at the sixty fathom level, and rise in back of ditto, against Hray's shaft, at appointed, the sampling is now deferred until to-morrow. P. Phillips.

WHEAL LEEDS MINING COMPANY.

March 27.—Eighty Fathom Level East—Lode eighteen inches wide, composed of ore and spar. Sixty Fathom Level East—Lode eighteen inches wide, composed of ore and spar. Sixty Fathom Level East—Lode eighteen inches wide, producing two tons of ore per fathom. Fifty Fathom Level East—Lode eight inches wide, producing one ton of ore per fathom. We have suspended the western levels for the present. We have set a cross-cut south, at the forty fathom level, and a winze to communicate from the seventy to the sixty fathom level.

the sixty fathom level.

C. H. RICHARDS.

March 29.—The lode in the forty fathom level, west of engine-shaft, is about three feet wide, good tribute ground. The lode in the forty fathom level, cast of engine-shaft, is one foot wide, tribute ground. The lode in the thirty fathom level, east of Williams's shaft, is one foot wide, tribute ground. The lode in the twenty fathom level, east of Williams's shaft, is small and unproductive at present. The part of the Mine Park lode we are driving on at the adit level, west of John's shaft, is one foot wide, producting spar, and a small quantity of ore. Tregellas's lode, at the same level, is one foot wide, unproductive.

H. Williams. John Morgon.

TRELEIGH CONSOLS MINING COMPANY.

TRELEIGH CONSOLS MINING COMPANY.

March 27.—We have finished cutting the plat at the seventy fathom level, at Christoe, and shall commence driving east and west on the lode immediately. In the sixty east the lode is large, producing a little ore. The sixty west is not yet clear of the disordered ground. In the fifty west the lode is four feet wide, of a favourable appearance, worth 77. per fathom. In Good Fortune shaft we have a very promising lode in sinking; it is about eighteen lackes wide, composed of spar, mundic, and ore. In the thirty-four west the lode is two feet wide, with a good leader of ore in the end, worth 47. per fathom. The twenty fathom level is improved; the lode is two and a half feet wide, worth 86. per fathom.

W. Sincock.

feet wide, worth 81. per fathom.

W. SINCOCK.

March 29.—The ground in Buckingham's engine-shaft is still troublesome for sinking. In the fifty-seven cross-cut south the ground is rather harder than last reported. The thirty west, on Toleane lode, is worth 81. per fathom. The thirty west, on the south lode, is worth 41. per fathom. The twenty west, on this lode, has not been taken down during the week; the wlaze in the bottom of this level is worth 81. per fathom. The deep adit west, on Wheal Jewel lode, is worth 71. per fathom, and the rise in the back of the level continues worth 251. per fathom. The MOSE-POWN MINING COMPANY.

of the level continues worth 25t, per fathom.

ROSE-DOWN MINING COMPANY.

March 23.—We have not yet driven through the large lode cut in the deep adit some time ago; we are still passing through a large mass of chlority, with abundance of mundic, and with a small portion of copper ore mixed in spar, &c., it continues exceedingly hard, and, of course, our progress is very slow, which is quite unexpected; we have already driven on this lode twenty-one feet. As to the primary objects (the great copper lodes) we are decidedly of opinion they are laying before us. During the last two months six men have only progressed in the adit on account of the intersection of this unexpected lode, about seventeen feet; of course we adies by every means to persevere in extending the adit south. We sold yesterday about 116t, worth of tin, the particulars and amount will be duly forwarded you. The appearance of the tin lode is such as we consider will pretty much more than pay its way for working—a statement also of which relative to the last return will be forwarded to you.

R. Hows.

with Abstraction of model, and with the analyse of the companion of the authorized space of the control of the

the necessity of employing the two parties of tributers to communicate a winze from the 95 to the 108 fathom level, for ventilating that part of the mine, consequently our next sampling will not be quite so much as we are accustomed to sample. This work, however, I am giad to say, is now completed, and the tributers aliaded to are gone to work regular, and have fair prospects of breaking a pretty large quantity of work. The several other pitches remain stationary as to prospects since my last inspection of the 25th ult. At the 135 fathom level going south of the engine—shaft the lode is 1ft. dim. wide, mixed with ore, spar, and capel. At the 125 fathom level the lode is one foot big, yielding a little ore. At the 118 fathom level the lode is six inches wide, and rich for ore. In the 105 fathom level the lode is heaved to the east of its regular course, on account of a fluccan intervening, and we expect to drive about 12 ft. westward to cut the main lode. In the 95 the lode is three feet wide, very hard, producing good saving work. We have suspended for the present the eighty-five and seventy-five fathom levels, and have employed the same men to sink a winze from the latter to the former level, for the purpose of dividing the ground for tribute, and as well improving the air in that part of the mine. We expect in a week to hole the winze rising from the forty-five to the thirty-five fathom level, and, when effected, will enable us to carry on our tribute there with greater facility. The last computed four-four tons of ore was sold on the 15th inst. to Messrs. R. and W. Michell, at 16i. 11s. per ton; and the computed fourtees and a-half tons to B. Somers, Eq., at 15t. 11s. per ton.

PRODUCE OF THE PRUSSIAN MINES DURING THE YEAR 1837.

From the Bu	lletin de la !	Société d'Encouragement.]	
Coal quintals.*	41,578,961	Sulphur quintals.*	416
Bovey coal (lignite)	10,450,820	Silver	8,621
Oxide of manganese		Lead	23,800
Galena (sulphuret of lead)	42,789	Oxide of lead	16,84
Cast-iron	1,944,962	Copper	19,347
Bar-iron	1,141,355	Wrought copper	16,144
Sheet-iron	188,573	Brase	18,044
Steel	1148,1458	Lind	215,466
Refined steel	42,463	Rolled sine	13,630
Cobalt	8,791	Alum	48,577
Arsenious acid		Sulphate of iron	33,837
Salphuret of antimony	326	Sulphate of alumina	3,467
Regulus of antimony	973	Common salt	41,100

The quintal may be assumed at about 123 lbs. English.

GREAT COAL-FIELD, NEW BRUNSWICK.

"The quintal may be assumed at about 123 lbs. English.

GREAT COAL-FIELD, NEW BRUNSWICK.

The Great Coal-field is situated between the primary rocks of the county of Charlotte and King's County, and the Straits of Northumberland, on the Guif of St. Lawrence. Only the south and south-east sides have yet been explored; the west, north, and north-east sides still remain to be examined, and its limits, therefore, in the latter directions, yet remain unknown. The division of this coal field, situated southward of the St. John, is the segment of a large circle, described between the Krawick above Fredericton, and the Ocnabog below Gagetown, and touching at Skin Creek and the head of the Ornoncto. Its south-eastern side extends along the trap and syenite rocks of Springfield, and the dividing lise between King's and Queen's, West-moreland and Kent counties, to the Straits of Northumberland. From one of the branches of the Oromocto to the Saint John, and from thence eight miles eastward of the entrance of the Washadennoak, the old red sandsions and carboniferous limestone appear, cropping out from henceath the mill-stone grit, along a distance of upwards of thirty miles. There formations have been already described. From what I have been able to discover, the live that this coal-field extends in a northerly direction to Bathurst, a distance of 150 miles, and to Miramichi, 120 miles, and from the latter place along the coast to Shedhae, which may be estimated at seventy miles. Until the north-east side of this wast coal tract is explored, it would be impossible to give a correct account of its area; but it may for the present be considered equal to 5000 square miles. I was a war that in making this statement, we must necessarily be exposed to remark; but it is accertables supported by the most unquestionable facts; and we have only to appeal to them, in vindication of what is here recorded. This tract may, perhaps, bear the reputation of being the largest coal-field ever discovered on the globe. Over the whole of this w

MINING NOTICES.

MINING NOTICES, [Under this head we purpose collecting such paragraphs as may appear in the provincial and other Journals, having reference in discoveries and improvements in mining operations at home and abroad. It is hardly necessary to observe, that we must not be considered to admit the correctness of the information conveyed, which, in too many instances, requires cautious investigation—the sanguine expectations of parties in some instances, and the want of honesty in others, threwing a degree of responsibility on a Journal in giving publicity to reports, which we do not intend taking upon ourselves.]

ANTHRACITE COAL TRADE OF THE UNITED STATES

The following table exhibits the quantity of anthracite coal sent to market from the different regions from the commencement of the trade is 1820 to 1841, together with the annual increase and convenience.

Years	Schuyl kill.	Mauch Chunk:	Braver Mead.	Hunte-	Sugar Loaf:	Pine	Shamo- kin.	Locks- winns.
lego .		345	-	energen .	-		-	
1929 .	****	1,073	-	-	-	-		_
1023 .		2,240	-	-	weeks	-	-	-
SOR .		3,803	-	-	-	-	-	-
824.		5,541	-	-	-	-	months:	-
98h, ,	5,384	26,200	-	-	-	remain 1	-	-
92M.	18,816	31,:80	-	-	-	-	-	-
S2	29,481	33,674	-	mode	-	(special)	-	-
BOM.	47,181	39,332	-	-	-	-	-	-
H29.	78,293	28,110		****	****			7,000
KED.	89,394	41,210	***	****	1934	1000	12.54	411,000
esl	81,854	40,966	****	V . 6%	****		XXXX	54,000
est.	200,271	75,000		****	* **	acts		94,604
513	250,588	125,000	0111		1125	X800		111,277
554.	226,692	106,244	30 K	****	****	25.55	8.08	43,796
KS5	385,485	131,280	2505	* 11	15.19	****	****	90,000
KM, .	443,734	146,302	****	11.00	****	1155	****	100,000
RAT .	885,780	190,193	38,617	*9.5		18,000	***	115,897
SS.	434,661	152,438	44,900	16,211	****	13,060	****	76,338
KED .	442,004	140,551	36,429	34,006	7,380	20,4320	11,830	121,000
N40	452, :91	192,164	43,419	30,350	29,660	13,000	15,508	145,478
	3,279,240	1, (73, 478	160,631	199,587	Mr.340	75,499	17,435	1,002,125

art ante me I	1100000	Lineshone	Leader	of markets	-	of 7400	
Years.		Aggregate	. An	nual incr	-	Chasum	p.
1929	*******	345	*** ***	MONTH		territorial	
1901		1,073		COM		-	
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1 863.5	*******	455,365				318,000	
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2 scott		KIMLADE .		130,691	*****	676,000	
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1 6530	****** *	817,659				MAT, 1988	
1840	+144839	853,4 4	*** *	47,773		Terreno.	
	100	MARKET MARKET					
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The above table includes the shipments from all the anthracite regions in the State, except the Wilkesbarre Basin, from which we have no returns. This supply, however, does not affect the Atlantic market—as the whole quantity, which, in 1837, was 17,492 tons, is consumed in the interior. The new impetus given to the coal trade by the erection of authracite iron works on the Susquebanna, will greatly increase the supplies from the Wilkesbarre region hereafter.

IMPROVEMENTS IN STEAM-BOILER PURNACES.

IMPROVEMENTS IN STEAM-BOILER PURNACES.

The following notice of some improvements lately adopted in the construction of the furnaces of steam-engine boilers, by M. Deniect, sen., an engineer and machinist, is given in the French publication L'Acere. A more particular description of the nature of the improvement, by which the effects stated are produced, is promised in a successing Number:—" Until the present time, almost all the furnaces of steam-engines have been constructed on the same plan; the same false and injurious principle is universally adopted; they are constructed on one system, and, it might be said, they are all time work of one builder, so little difference is perceptible between them. Among the number of defects remarkable in the present furnaces, resulting from their defective construction, we will particularise the failulewing. The furnaces communicate too much heat to a certain portion of the heating surface of the boilers, and communicate scarcely any heat in the creat of the surface, though the heat ough to be equally distributed—hence the frequent repairs requisite in the parts of the boilers that have been too much heated, and the increased danger of explosions. The calcutic effect of a portion of the combustible gas is destroyed by its not being entirely consumed; there escapes up the chimney also a considerable quantity of coal, in a state of almost impalpable powder, carried away by the draft without being burntheaux arises that dense black smoke which announces from a distance the presence of a steam-engine, and which is, also, too often the cause of complaint and annoyance to those in the vicinity. They consume too much coal, and do not make the most of that which is used. On the present plan of constructing furnaces it is not possible instantaneously to intercept the communication of the flame with the boiler, which on many occasions would be very advantageous.

do not make the most of that which is used. On the present pian of communication of the flame with the holler, which on many occasions would be very advantageous.

"We can instance, in support of our assertion, the steam generature of the chief manufactory in the department of Haut-Marne. They have scarcely worked from 500 to 500 days of twelve hours each, and have had part of their surfaces renewed nine times. The furnaces which heat these generature must consequently be very bad, when their operations are abtended with such results. These engines also consume the kingrammen of coal an lover for every horse power, which is double the quantity that a good engine consume. We will notice, in passing, another steam-engine at the same establishment, placed at the mouth of a biast furnace, and heated by the flame that excepts. In this case, not withstanding the quantity of heat which may escape from the gases at the france mouth when huming, these gases have never been made to commondeate best to the boiler. They become, in short, coticely extinguished when brought into contact with the pipes of the boilers, and are not religibled till they reach the chimney, the waits of which they make red hot.

"But little has the management of this kind of furnace been understood, that the engine has been taken to pieces, and eltogether stopped, rather than alterned those necessary improvements which summon sense anguesta should have been made.

"The arrangements which we have made for generators, heated sither by flame direct from the fuel, or by the flame of gases excepting from blastiuraces, have enabled us to attain the following results:—The whole leading our being to relie the same temperators, whatever the length of the builters may be. The generatore last a considerably imager time, in consequence of not being burst in places as they formarily were length of the builter may be. The generatore as they formary were length of the builter is relied to the same temperator, whatever the length of the builter is a likely to be

STANNABLES OF CORNWALL.
IN THE VICE WARDEN'S COURT.
AND OTHERS *. THOMAS.

BIANNARIES OF CORNWALL.

IN THE VICE WARDEN'S COURT.

BORLASE AND OTHERS e. THOMAS.

WHEREAS the Vice-Warden did, on the 27th day of January last, order that a sale be made of (amongst other things: the machinery and malerials upon, and belonging to, Wheal Rose Mine, in the parish of Sithney, within the raids (classrates, under the direction of the registrar of the court, and that the proceeds of such as a should be applied by the sale registrar in the manner directes by the decree, in the above mentioned cause,—Notice in hereby given, that, pursuant to the said decree, a PUBLIC AUCTION will be holden at WHEAL BORE MIRE aforeasid, on Tureday, 2th of April next, at Eleveno o'clock in the foreason, for earling either together, or in lots, the undermentioned MINING MACHINERY, MATERIALS, and other effects—viz, a capation and shears, two horse whims, with shaft tackies, twenty fathous or ladder, a quantity of debenture, while, half, and quarter hale planks, A.c., a timber shed, three pieces of Memei rod timber, three large iron blocks, a large quantity of wrought and cast-iron, smith's bellows, anny, tioe, grindstone, carpenter's bench, winze, kibbies, hitts, chests, a steros, barrows, a quantity of brick, nails, about twenty dozsn of candies, con ting house fermiture, Ac., Ac.

For viewing the same, application may be made at the mine, and for further particulars if by letter post p id) to Mr. T. P. Tyacke, solicitor, lifetatone; or to lessers. Paul and Roberts, solicitors, Truro.

Dated the 21st day of March.

ANTED, in a locomotive and other engine manufactory, in one of the principal towns in the kingdom, two respectable Youths as AP-PRENTICES. As the utmost care and attention will be heatowed in instructing them in every branch necessary to a full and competent knowledge of the business, a commensurate premium will be expected.—Letters addressed "Mechanicus," and left at the office of this Journal, will be attended to after the (at May.

BAINS IDGE OF MINES AND MINERALS.

PRACTICAL TREATISE on the LAW of MINES and PRACTICAL TREATISE on the LAW of MINES and MINERALS, comprising a detailed account of the respective Rights, interests, Duties, Liabilities, and Remedies of Landowners, Adventurers, Agents, with workmen, and of the Local Customs of Derbyshire, Cornwall, and Devon, with an Appendix of Legal Forms, relating to Grants, Leases, Transfers, Partnerships, and Criminal Proceedings, and a General Index.

By WILLIAM BAINBRIDGE, Roy, of the Inner Temple, Barrister-al-Law.

CONTENTS OF THE VOLUME.

CHAP. I. On the right of Property in Minerals.

III. On the right to work Mines.

V. On the Transfer of Mines.

VII. On the right to work Mines.

VII. On the right to grant Leases and Licenses.

VIII. On the right to grant Leases and Licenses.

X. On the Bayling in Mines.

X. On the Rating of Mines and Quarries.

XII. Local Customs.

Arranges.

Arranges.

Arranges.

Arranges.

A work of much importance and interest, and highly creditable to the talents and industry of the author, as furnishing information which could alone be acquired by an intimate connection with the mining districts, as well as a legal knowledge of the several points discussed. A work which must be popular, and ought (as indeed if will force itself) from its utility, to be in the office of every solicitor, while its usefulness to the capitalist and mine adventurer, will be acknowledged great by a historization of its contents. ""Mining Journal.

Henry Busterworth, Fleet-street, London; M. A Richardson, Pilgrim-street, Newscatte.on. Tyne; and all other booked ere.

PHE CIVIL ENGINEER AND ARCHITECT'S JOURNAL,

SCIENTIFIC and RAILWAY GAZETTE, price One Shilling and Stapence.

Bit. 43, for April, contains Drawings and Discription of Towing Paths and Banks of Canasis in Great Birtisin. Railways Bill. Engineering Works of the Ancients, No. 4.— Episcoles of P and Establishment for procuring Mousist from Monuments of Art—Harbours on the Scoth Estern Cosat—Colon's Petent Socket Axis tree—
Badlway Statistics.—Remarks on the Central Forces of Bodies revolving about Fixed Badlway Statistics.—Remarks on the Central Forces of Bodies revolving about Fixed Badlway Statistics.—Carbitecture of Liverpoot—Ballway Statistics.—Carbitecture of Liverpoot—Ballway Statistics.—Carbitecture of Liverpoot—Ballway Statistics.—Cheetham Church, &c.—On the Curvature of the Architecture of Liverpoot—Ballway of the Holge of the Holge Trinity.—Now Inventions and Improvements—The Arcelan Boring at Parts—The Maptin Lighthouse—The Frymouth Breakwater Lighthouse—Meruny and Irwell Navigation Mr. Paisors and Mr. Bateman's Reports.—Warming Bullstings by Holf Waler—On the Biyle of Wren—Reviews of New Books—Proceedings of the Indigention of Civil Engineers, Reveal Institute of British Architects, and the Civil Reports of Indigence of British Architects, and the Civil Reports.—Bat Institute and numerous professional Chile some and remarks.

mes I. II., and III., bound in cloth, may be had, price #1 each.

MEETINGS OF SCIENTIFIC BODIES.

	THE ENSUING WEEK	Α.			
	TACE OF MERTING.	BAT.			
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al morsety of Literature	St. Martin's place	Thursday			

PUBLIC COMPANIES.

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Britannia Life Assurance Company	Frinces street, Bank		12-1.
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NOTICES TO CORRESPONDENTS.

The importance attached to the properties of the sulphur ores of this country, and their application to purposes which, until of late, were unknown, renders a paper, inserted in another column (with which we have been favoured by a correspondent), of peculiar interest at the present moment, it affording a comprehensive view of the nature and properties of sulphur, and, among other subjects treated upon, one which will excite particular attention—wiz, the extraction of sulphur from writes, with remarks or the weekly application. from pyriles, with remarks on the useful employment of the residue of distillation. We shall be most happy to receive further communications on this subject from our correspondents.

SOLOGY OF THE PARIS BASIN.—We have in type an interesting Ge scription of the Paris Basin, but are compelled to postpone its inserti-

servise Inon Courany.—We have too many claims on our columns to admit of devoting so much space as our Liverpool correspondent r quires, to "place the company's present position in the true light before the public, and how it might have been averted;" he must publish a pamphlet, if he wishes to give publicity to his views, unless he can express them in a paper of a moderate length.

The papers on the Resources and Properties of Coal, and the Geological Structure of the Wealden District, are unavoidably postponed.

INFRACTIONS FOR BLASTING.—The concluding part of this paper will be published next week.

our next. Downery Coat Company.—The publication of "T. M.'s" letter had better be deferred until after the forthcoming meeting. Should the desired information not then be afforded, we shall publish it, together with several others, which we have withheld, in the hope that the directors will see the necessity of meeting the shareholders with candour, and render a just account of all their transactions.

It will afford us pleasure to forward the case for the opinion of " K. A. T. E."

THE MINING JOURNAL. Bailway and Commercial Gajette.

LONDON, APRIL 3, 1841

It is with pleasure we refer to our columns of the present Num ber, as well as to those which have anticipated them since the commencement of the year, as evidence of the increasing interest excited by the matter which finds place of record in the MINING JOURNAL. We are not naturally egotistical, nor ought we to be so considered on the present occasion, as it is to our correspondents that we are indebted for being able to submit to our readers a weekly periodical possessing so many claims to the attention of the geologist, the miner, the collier, the assayer, the engineer, the scientific reader, and the adventurer, while the " postscript" af fords to the fundholder and the commercial man a review of the week's proceedings in the money market, and the latest intelligence.

We are induced to direct attention to the subject-matter of the Journal, in the present instance, for the purpose of availing our selves of acknowledging our obligations to several correspondents whose papers have lately appeared in our columns, and which we have illustrated by diagrams, being anxious at all times to render the MINING JOURNAL useful and instructive, and, indeed, to carry out the objects which its very title indicates-a Journal of Mining Operations-leaving it to our readers to ledgerise the several articles by double or single entry, as they may think fit. In referring to the able articles on the working of collieries, and operations connected therewith, the papers of Mr. M. DUNN, of Newcastle, Mr. STANLEY, of Sunderland, and other correspondents, who have subscribed themselves under initials, or fictitious signatures, we have more particularly to acknowledge, from the interest which has been manifested on this subject. The communications of Mr. Byens, Mr. M. J. Roberts, Mr. PRIDEAUX, and others, on the various modes of assaying -the letters of Mr. BUDGE and others, on dialling and underground surveying, with the numerous subjects of a scientific character treated upon in our columns, derived from correspondents, have materially enhanced the character of the Journal. The paper in our present Number, " On the Application and Properties of Sulphur," amongst other original papers which have from time to time appeared, will be read with interest, and at once assure our subscribers that we are not less anxious to render information, from the best sources, than they are to acquire it.

The general meeting of the Cambrian Iron and Spelter Company, held on Wednesday last, affords opportunity for making some few remarks on the course adopted in excluding the pressthe object of which is too apparent to render observation necessary, except in cautioning shareholders in other companies from heing made the dupes of a secret conclave. We have, on more than one occasion, animalverted on the system of secrecy observed, and have not hesitated to express our conviction, that there were good and sufficient reasons -at least, in the opinions of the directors why the public should not be put in possession of the affairs or circumstances of the company, or the absent share holder made acquainted with the nature of the discussion which might take place at the general meetings. The mere printing of a report and accounts is, in a great measure, a farce, even in the cases where such course is adopted, compared with the interrogatories and explanations afforded at a public meeting. This company, however, may lay claim to the right of exclusion of the press, perhaps, more than others we could name, for, if we are rightly in formed, the scheme may be considered to have been, in a great measure, a failure - the public would not "hite," and hence the necessity of its being upheld, in hopes of better times, by a few individuals. Backed by the support of the coffers of the London Joint Stock Bank, much has, doubtless, been done in the expenditure of money, but we should question whother the profits of the comwhen in effective operation, will even pay the interest of the money they may have, or will find necessary, to borrow. We should think nearly 200,000% has been already expended on the concern, which a highly creditable to Mr. Haunran, the engineer, for the erections and general laving out, without regard to the cost incurred. We will not, however, dwell on this particular company, but proceed to enumerate one or two other from Companies, the directors of which evince equal jeal-may of publicity being given to their procredings. We will first begin with the British Iron Company. This company, projected in the year 1826 or 1823, has, since that period, called up as subscribed capital no less a sum than 1,200,000 and by the quoted prices, the shares are sorth ?" 80,000 less than nothing - some 500,000/, or s00,000/, have to be paid Mr. ATTWOODlegal proceedings are threatened by the directors against the sharebolders in delault, and, on the other hand, an application to the Court

of Chancery by the latter against the board of directors-this is example the first of the "silent system." The next upon our list is the Rhymney Iron Company, the capital subscribed on the shares in which is 500,000L, and which is represented in the market at 50 per cent. discount. Next, the far-famed Talacre Iron Company, of which we have already said enough for the present, although much remains behind. Here, then, we have enumerated four Iron Companies, which preserve silence, and do their deeds in darkness; the only exception in our share list being the Blaenavon Iron Company, to the meetings of which we have at all times had ready access, and whose shares maintain a fair price in the market, attributable alone to the candour and openness manifested by them, which engenders public confidence, and ensures public support. It will be seen that the companies we have enumerated stand thus :- British Iron Company, amount paid, 1,200,0002.value 80,0001. less than nothing, or a premium given by the holders of the shares of 80,0001 over and beyond the money subscribed, with the view of avoiding further calls and responsibility. Rhymney Iron Company, amount paid, 500,0001. - value 250,0001. and unsaleable to any extent. Cambrian Iron Company, amount paid something like 200,000l., with no market value; and the Talacre Iron Company, the shares in which, even if paid up in full, no one would take as a gift. Such is the state of these companies, which refuse to give publicity to their proceedings, the cause of which may be well guessed at, while the effect is seriously felt by the proprietary -yet who have only themselves to blame. If among other companies we wished to adduce another instance, we might take the General Mining Association, brought out under most splendid auspices, and the shares of which obtained high premiums; this company, after having put forward reports, not only calculated to maintain the price in the market, but to lull the shareholders into a state of false security, by holding out promise to the ear, have called not only the amount of capital, being 400,000%, or 201, per share on 20,000 shares, but have lately, as appears by the letter of a correspondent, made a further call of 40,000/, - the market price of the whole concern being not much above the amount of the last call made.

We trust that we have said enough for a while to awaken the shareholders in these several companies from the stupor which has been productive of so much injury to their own interests, as well as to mining enterprise generally, from the evidence it exhibits of want of care and attention on the part of capitalists, and the consequent result of directors and jobbers making their fortunes, in many instances, at the public cost. The general meeting of the Rhymney Iron Company takes place next week; let some independent proprietor require, on the part of the shareholders, that a reporter of the press shall be present, and we promise him that the proceedings, with some comments, shall appear in our next Number; for ourselves we shall make our ordinary application, and expect, as usual, to be met with a refusal.

We are glad to find that Government is at last directing its attention to the "manufacture" of joint stock companies, and more especially those which come under the designation of assurance companies. The injury already sustained by the public from the want of a proper check over establishments of this nature, has been at last too strongly manifested to allow the system so generally pursued to be passed over with impunity. The late exposure of the fraud practised under the title of the West Middlesex Insurance Company, by which 200,000f. was abstracted from the industrious portion of the community—the Royal Union Annuity Company, in which Mr. GLENNY cut so conspicuous a figure, and of which the late Duke of York and several noblemen were represented to be patrons—the British and Australasian Bank in like manner—the known state of several life insurance and loan companies at the present moment, the investments of which have been either wastefully expended, or advanced without bond fide security (the directors trusting to the lives not falling is until they are out)—these have forced themselves on the attention of the Ministers, and it is with satisfaction we learn that they purpose referring the considera-tion of companies of this nature to a select committee. We need hardly say that the proposed measure has our earnest support. Let the committee be once appointed, and we will undertake to submit to their consideration some questions to be put to the ra-nagers and directors, which, if we mistake not, will reduce the nber of our assurance companies very considerably, and strike off the list of directors many whose names are a disgrace to those

with whom they are associated.

We perceive, by last night's Parliamentary reports, that Mr LANDUCHERE moved for a select committee to inquire into the state of the law respecting joint-stock companies (banking companies excepted), with a view to the prevention of fraud, which

It is with regret we have this week to record the defalcation of a gentleman, whose name has so oft appeared in our columns as a director of several companies, and who held the responsible office of official assignee in the Court of Bankruptcy - Mr. Paren Han-nisa Annorr. We felt it our duty, when that gentleman was in the senith of his glory, living on the property and plunder acquired from others, to expose his conduct, trusting that it would serve as a caution to those who might become connected with him, for we were well assured, from the expose in the matter of the Adelaide Gallery, and other circumstances which had come to our know-ledge (of a nature to which we did not feel at liberty to give pubheity), that the game must soon be up-and so, unfortunately, it has proved. The amount for which Mr. Annove is in default has been reported at from 60,000 to 80,000 , and we are led to be-lieve that it amounts to nearly, if not full, the former sum. We regretted to find that the Times lent itself to glossing over the mis-conduct of the party, which we can only attribute to the writer being, passibly, an official assigner himself; but the communica-tion made by the LORD CHANCELLOR to the Commissioners of Bankrupts, of the determination to have monthly returns, will, we have no doubt, put all upon the que vice, and have the escuring to the creditors the little which may be left to them from securing to the creation. We have heard of one or two had cases, but the hankrupt estate. We have heard of one or two had cases, but as an inquire is being instituted, we await the result. Mr. Peven. HARRISE Annor, and other polders like him, will find out that, in the end, " honesty is the best policy."

Tax " Passenews "-No tologe of the President had reached Liverand up to ten a clock restands (Friday) marning. The purish-thip Forgrands, which rould not leave New York earlier than the 14th nit., was then of the port; she may purbage, bring some intelligence of the

Mr. Murchinen, the President of the Geological Society, has just left so-line upon a tour to the Ural Manatains and distant parts of the Russian sian Empire.

ON THE NATURE AND PROPERTIES OF SULPHUR.

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ON THE NATURE AND PROPERTIES OF SULPHUR.

The activity which at present prevails in the county Wicklow for intreasing the supply of the sulphur ores of that district, attracts much attention, and the exposition of any information connected with the nature of the mineral, and the most advantageous manner of employing it in the industrial arts, must also be a subject of great interest to all those who can appreciate the national value of mineral wealth, as well as a great source of riches to those who successfully employ such information. In the first place, a short sketch of the statistics of sulphur, or brimstone, with an account of its nature and combinations, may be useful. It is most abundant in nature, being found in all formations, from the oldest to the newest; but it abounds chiefly in volcanic districts, where it is often found in a native state; it is largely combined with metals in their mineral state, in the form of sulphurets. Copper, iron, antimony, zine, and lead, are almost always combined with it to a greater or less degree, and it is one of the most important operations in metallurgy to expel sulphur from the ores. Hitherto the sulphur consumed in Great Britain, amounting annually to about 30,000 tons, has been obtained from Sicily, where it is prepared in a manner hereafter described. It is found in mechanical mixture with earth, both at Solfatara, in Sicily and in Poland. Letters have lately been received from Tripoli, giving an account of an attempt made to work the sulphur mines in the Gulf of Syrte, which promise to be very productive. In Sweden, Saxony, and Bohemis, it is found in chemical combination with iron and copper. This mineral is known by the name of "mundic," also "pyrites," from the Greek word, signifying fire, on account of its peculiarity in emitting sparks when struck with any hard substance; it has been used as a substitute for gun flints. The mines of Cornwall, Anglesea, and Wicklow yield this mineral in great abundance, but sulphur has never been extracted from it in this

the Pary's Mine, in Anglesea, where a small quantity is saved, but by a most extravagant process.

It will be interesting to mention a few of the peculiarities of sulphur, as the phenomens it presents, when heated, offer a striking contrast to the received theories of the tempering of steel and glass, and are analogous to those exhibited by Brony. At a temperature of 110 deg., sulphur is very fluid, and of a bright citron colour; it preserves these characters up to 140 deg.; but when once it passes this temperature, the phenomena it presents are most curious; for example, at 160 deg. it commences to thicken, and has a reddish tinge, and, if the heat is continued, it acquires a consistency, such that you may overturn the vessel which contains it without displacing the sulphur; between 220 and 250 deg. this change is most remarkable; towards the boiling point it again becomes liquid, but does not lose the colour given it by the heat, nor does it become so liquid as it was st 109 deg. When raised to a high temperature, and suddenly cooled, sulphur becomes soft; and if the experiment be well conducted on sulphur raised to a temperature of 230 deg., it will become so soft and ductile that it can be drawn into wires several feet in length.

On the USES TO which sulphur is Emphoyed.

ON THE USES TO WHICH SULPHUR IS EMPLOYED.

ON THE USES TO WHICH SULPHUR IS EMPLOYED.

Soft sulphur can be employed with success in the arts, for taking delicate impressions and casts, such as of coins, medals, and seals, or of designs in relief; for in a few days it resumes its premature kindness, and these impressions serve as a matrix for forming other casts. Melted sulphur is also used for these purposes alternately with plaster, as the sulphur contracts in solidifying, while the plaster swells—thus the alterations in the one body are corrected by the other, preserving a proper image, which cannot be done when plaster slone is used. Sulphur is employed to cement iron and stone; it forms sulphurous acid, and by this means sulphuric acid—a commodity we shall treat more fully of hereafter; it is used in the manufacture of matches and gunpowder, combined with magnesia, lime, and petash; it is used as a medicine, and with mercury it forms cinnabar or vermittion.

ON THE ARPINING OF SULPHUR PROM EARTHY MIXTURES

neals, lime, and petash; it is used as a medicine, and with mercury it forms cinnabar or vermillion.

On THE ARTINING OF SULPHUR FROM EARTHY MIXTURES.

When sulphur is found in combination with earthy matter, its purification generally consists of two distillations; the first roughly performed on the spot where it is obtained, with the object of rendering the cost of carriage less expensive; the second is made with more care, near the spot where it is brought to market. At Solfatara the first distillation is executed in a furnace, or gallery, in which are arranged ten or twelve earthen pots, about twenty inches apart, in two ranges—each of these pots containing about twinty pints. When filled with ore, broken to the size of road metal, the top is luted down, but there is a tube connected with an opening in one of the shoulders of the jar, about two inches in diameter and fourteen inches long, which communicates with a second jar, pierced with a hole at the bottom, from which the sulphur flows into a tub of water, and is then condensed—it is sublimed in the first jar and cooled down in the second. At Marasilles there is a large establishment for the revising of sulphur, conducted by M. Michel, who invented the apparatus; it consists of a scal-iron retort, and a west chamber, which serves a conductor. The retort, containing about 1500 or 1600 lbs. of material, and is heated by a furnace, which, however, has no communication with the chamber or the retort; an iron door in front serves to clear and recharge the retort, the beak of which conducts the funes of the sulphur to the large chamber, where they are condensed and collected either in liquid state or as the flowers of sulphur; the temperature of the condenser alone effecting the condition in which it is obtained. Much care is necessary to be observed in this process, as the admixture of a rey small partion of air with the funes in the chamber give rise to explosions, which we sometimes disapprous, for it offens happens that the temperature of the chamber is ca

ON THE EXPRACTION OF SULPRUS PROM PUBLICA.

Sulphur is also extracted from some metportant operation in metallurgy; it is more profitably obtained from the persulphoret at iron than from copper ores, and that the process may the persulphoret of iron than from copper ores, and that for process may the more easily be comprehended, it may be said that iron pyrites is combined in such a manner, that if one-half of the sulphur be extracted, the resides will then be constituted in such proportions, that if the sulphur be acidified, and the iron be transformed into the protoxide, then will result the neutral salt of the sulphute of the protoxide of iron; this may be offacted by the action of host; but in Sarvey and Bohamia, where sulphus is extracted from pyrites, not more than 25 per cent. of the sulphus con-I sinced is obtained, so it is stated that the heat secreeary to disrugage the remaining sulphus course the reaction to run into a citeder, and that it is impressible to withdraw it without destroying the apparatus. Under slightly different circumstances, however, I have seen the residuous of some sulphus are from Warking from which I per out, of the sulphus had been extracted at character works in Classes, which are not a considered on extracted at chemical works in Glasgow, which was not so much For at in have rendered it impossible to withdraw it from the appearatus used in the shore-mentioned places, and which may be described as fol-lows: — Earthen takes, open at book code, and slightly conical, are placed across a former or gallery, buring each a slight inclination of about on both; in their lower spening is placed a size of carth, which parasite the vapours to except, but retains the ore, which is broken in small places, and

put into the tube; a lid is luted to the upper end, and another tube is situached to the lower extremity, which serves to conduct the sulphur argument to a condenser containing water, it is then resulted and run into moulds, such as we receive it. Each farance is provided with from twelves to trenty-four tubes, each containing about one-quarter of a cwt., and the distillation lasts about eight hours; in a furnace of trenty four tubes and the distillation lasts about eight hours; in a furnace of trenty four tubes and the distillation lasts about eight hours; in a furnace of trenty four tubes and the distillation lasts about eight hours; in a furnace of trenty four tubes about 2000 lbs. of sulphur over use treated in a week, and about 130 lbs. of sulphur over use the sulphur over use treated in a week, and about 130 lbs. of sulphur over babased, which is about 14 per cent. M. Dutiques, and obtains the sulphure of the peroxide and the sulphate of the peroxide are the basis of sulphur over a behaling and the sulphar of the protoxide and the sulphate of the peroxide and the sulphar of such about 2000 lbs. of sulphur over a behaling and the sulphar of the protoxide and the sulphar of the su put into the tube; a lid is luted to the upper end, and another tube is attached to the lower extremity, which serves to conduct the eulphur vapours to a condenser containing water; it is then remelted and run into moulds, such as we receive it. Each furnace is provided with from twelve to twenty-four tubes, each containing about one-quarter of a cwt., and the distillation lasts about eight hours; in a furnace of twenty four tubes about 2000 lbs. of sulphur ore are treated in a week, and about 190 lbs. of sulphur ore obtained, which is about 14 per cent. M. Dartiques, at his establishment in the neighbourhood of Ramur, has made a slight modification of this apparatus, and obtains the same result. Sulphur is also extracted from pyrites at Falhun in Sweden, and Goslar in the Hartz Mountains; at the former place it is obtained by a process proposed by the celebrated Ghan, and may thus be described:—On the slope of a hillock a pile of pyrites is laid upon bille's of wood; the wood is first ignited—the pile is then covered with baked earth or puddle (a small opening only being left at the top to regulate the combustion, and which can be closed by a flagstone)—the vapours are allowed to pass along a conduit, about forty-three feet in length, and formed of boards; the vapours which condense in this passage are taken out of small reservoirs in the form of sulphur, and the uncondensed vapours pass into a large chamber, where they circulate till condensed, which can be assisted by artificial means. This chamber, as well as the conduit, should be perfectly airtight, otherwise the fumes of sulphur will be converted into sulphurous acid, and, should moisture be present, into sulphurie acid, by deriving oxygen from the atmosphere; the sulphur in general obtained by this process does contain so much sulphurie acid, that it is necessary to wash it. By the Goslar process is instituted chiefly for the roasting of ore and not for obtaining sulphur; it is also practised at the Pary's Mine, in Anglesea, and may be described as foll

in Anglesea contains about 7 per cent. of impurities, while that imported from Solfatara contains only 3 per cent., and that not at all arsenical.

ON THE NATURE OF THE RESIDUE AFTER EXPELLING PART OF THE SULPHUE.

We have seen that, in Saxony and Bohemia, as well as by the process of M. Dartiques, that only 25 per cent. of the sulphur present in the ore is extracted, which circumstance would indicate that the residue is a combination of determinate proportions of such a nature, that the persulphuret being formed of two atoms of sulphur and one of iron, this residue will consist of two atoms of iron and three of sulphur; or that it will correspond to the sulphuret of the red oxide of iron, from which can be formed the neutral sulphate of the peroxide of iron, specifically, in combination with the necessary quantity of water for crystallisation, forms copperss. Sulphuric acid is the most important of the combinations of sulphur, and a sketch of some of its properties and formation may now be given the mere fully, to explain the process by which it is obtained from iron pyrites, which is now so generally coming into use, to the great benefit of so many of our mining districts, but chiefly to the mines of the county Wicklow, Sulphuric acid is known to us in three distinct forms—first, pure or dry acid; second, combined with water, or what is usually termed, the sulphuric acid of commerce; third, in the state called glacial, or fuming, which is a mixture of pure and hydrate acid in variable proportions. Dry sulphuric acid is solid at the ordinary temperatures—liquefies at 25 deg., and instantly goes off in vapour; when crystallised it is with difficulty redissolved; its crystals are of the form of needles and stars, of a clear transparent white colour; when liquid, its density is 1-97 to 2-00—solid, it would be something more. Ordinary sulphuric acid, in hydrate acid, in an oily liquid, but not so heavy as the anhydrous acid, its density at 15 deg. is only 1 848; neither animal or vegetable material. White the anhy

the anhydrous congesis at temperatures below 25 deg., while the hydrous only solidifies at 10 or 12 deg. below zero, of the centigueds coste; it does not fume in the air, but it rapidly extracts moisture from the atmosphere, and will imbibe four times its own weight of water if exposed for a sufficient length of time, and frequently sgisted. When mixed with water in certain proportions, it gives out various degrees of heat, and great cold is produced by mixing it with ice.

The discovery of sulphuric acid is due to Basile Valentine, a chemist, who lived towards the end of the fifteenth century, but it has since occupied the attention of all who have devoted themselves to chemistry. Mons. C. Desormes has explained the theory of the formation of this acid, as follows:—Having first exhausted a glass globe, he passed into it two measures of sulphurous acid and half a measure of dutoside of nitrogen (these gases mix without uniting), two measures of oxygen were then introduced into the balloon, when immediately red vapours, due to the formation of nitrous acid, appeared, caused by the combination of the datoride with the oxygen added; a few drops of water being then introduced, the red vapours disappeared, and small white crystals began presently to form on the sides of the globe. According to M. Clement Desormes, these crystals are composed of sulphuric acid and dutoride of nitrogen, united with a certain portion of water. If, at this stage, a greater quantity of water be injected, the crystale will immediately disaoles with a hissing noise, and the temperature will be sensibly reside. The water charges itself with sulphuric acid, and disengages the dutoxide of nitrogen, which, coming in contact with oxygen, returns to the state of nitrous acid, and the red vapours again appeared. In this case the water added has decharges itself with sulphuric soid, and disengages the dutoxide of nitrogen, which, coming in contact with oxygen, returns to the state of nitrous soid, and the red vapours again appear. In this case the water added has determined the separation of the sulphuric soid, and the nitrous soid, which had given one portion of its oxygen for the formation of the crystals, is reduced to the state of the dutoxide of nitrogen, which is disengaged; but this dutoxide of nitrogen again meets with the oxygen and sulphurous acid in the balloon, where again it passes, first into nitrous soid, then into the small crystals before mentioned; these are in their turn decomposed by the water, and so on until the oulphurous acid or oxygen be entirely consumed. We thus see how a small quantity of nitrous acid can transform an infinite quantity of sulphurous acid into sulphus acid. M. Gay Lusace has, however, threwn some doubte on the meanner in which these elements are said to be in combination; and M. Dumos is disposed to think there are some modifications, under certain circumstances, with which we are not fully sequeinted.

ON THE MANUFACTURE OF SULFBURIC ACUS.

Sulphuric acid is manufactured on a large scale, by permitting the fumes of sulphur, burned in a separate chamber, or the sulphurous fames from ignited pyrites, to enter a large leaden chamber, having a few inches of water at the bottom of it, and ransing the dutuaide of nitrogen to min with it there; in some instances, and for the sake of economy, the dutuaide is obtained by decomposing sugar or starch by nitrous acid, thereby obtaining scalie acid; but, for the most part, the officie of potash is placed upon shelves midst the fumes of the sulphur, thereby supplying dutuaide of nitrogen and sulphurous acid in proportions sufficiently semmominal. The purposes for which sulpharie acid is applied in the arts, are as follows .- In the decomposition of ealt for obtaining soils -- isrgely used in making glass, soop, Ac., sion muristic acid, which is employed in an many purposes; it is the means of obtaining chinrine, and is used in the fabrication of nitric acid, as well as most of the acids known; it separetes silver from gold—is an ingredient in the formation of alam—the sulphate of supper and iron; it is partly the meens of binecking, and is used in the preparation of sugar from bottood; it is used in dysing, and for a number of other persposes, as a secondary agent. The facility with which sulpharic acid is manufactured from pyrites, renders the distillation of sulphar a sanitor of less importance than would at first appear; yet the importance content of less importance than would at first appear; and the incovernes expenses of corriege of an much extranspose matter is a subject well worthy of consideration; and having given the analysis of the nature of the residue, after expelling different parties of enligher, we may reside a few of the mostal purposes for which that residue may be exployed.

REMARKS OF THE PARTIE AMPLIFICATION OF THE BASINGS OF

DISTILLATION.

We have already seen that when 14 per cent, of the sulphus our in the percelphanet of iron is expelled, the sulphate of iron, or empores, may be obtained from what remains. We see, however, taid that on,

ORIGINAL CORRESPONDENCE.

APPLICATION OF DRY AND WET COPPER ASSAYING.

TO THE EDITOR OF THE MINING JOURNAL.

Sin,—Without waiting longer for the verification of "Observer's" implications. I may just suggest to him, that whilst reasoning and arguments bear their own weight, and are sometimes best anonymous, to keep clear of personality—opinions and assertions, on the contrary, rest upon authority, and it is hardly honest to give them the weight of names who have not been consulted. The following observations on the respective applications of dry and wet assaying I should have supposed needless, but for the misunderstandings, on this point, which have appeared among your correspondents.

applications of dry and wet assaying I should have supposed needless, but for the misunderstandings, on this point, which have appeared among your correspondents.

There are two objects in assaying—one to ascertain the entire proportion of metal present—the other, to learn the quantity which can be predicted of the smelter, showing how much is lost in his operations, and stimulating to their improvement—the second, to ascertain the market value of the one between buyer and seller. The first object can be effected only by the wet process, of which more presently; but it appears to me that the miner will only deceive himself if he trusts to this process to ascertain the value of his ores. Their relative value depends, not on the proportions of metal contained, but on the quantities which can be extracted with profit; and it would be a sad mistake to reckon an ore which gave, by the wet process. I per cent, of copper, at 1.20th the price of one giving 40 per cent.—to take the first at as many shillings per ton as the other pounds. Even by the dry process this will not always be the case; but, by making our assay as nearly as possible a miniature imitation of the smelting process, we learn, not what the ore contains, but what the smelter can get from it—and, allowing for his expenses and profit, can thus compute the value of the sample. Nor is this the only advantage of dry assaying—it returns the metal in its marketsable state, and by operations at once distinct and expeditions. For commercial purposes, therefore, the dry assay is the most trustworthy—and, for distinctness and expedition, the Cornish method is excelled by none, whilst, in good hands, it may be equally relied on for comparative accuracy. How far this comparative accuracy is all the seller has to expect, is another question—Whether improvement in assaying ought not to keep place with those in smelting, and whether buyer and seller would not be likely to agree better, if the mystery of "surplus copper" was fally laid open? There is nothing impractica

nomy is easential. But we will not anticipate Mr. Thomas's promised lecture.

Wet assaying, to the miner, is chiefly an object of curiosity, but may also serve as an occasional comparative check upon the dry produce—its general utility is, unquestionably, to the amelier. A new kind of wet as-asy has been lately introduced, and has occupied a place in your columns—the electro chemical, or voltaic. This is very effective, and where porous earthenware vessels are not easily attained (for I cannot recommend the Cornish crucible for this purpose), pig's get, or even sheep get, answers very well. The objection of the length of time required is not very actions, as, if we put it in action at night, it is done in the morning; but the exact precipitation of the copper, where an ore has been dissolved in mortatic actid by aid of nitric, requires some practice—perhaps so much as to attain correct results from the common wet assay. Of this process (the common wet assay), the fault is not that it gives too little copper, but that, without expectal precautions, it gives too much. These precautions are given in the Mining Hersiew, No. XIX., July 31, 1839, and for those who have a sand heat fit to work with sulpharde acid, the full-lowing directions may be not unaccessary; but as this is not possessed by many of those interested in copper assaying, some other practical instructions may be not unacceptable.

The creek of the processory is to be heated in mariatic acid.

lowing directions may be unnecessary; but as this is not possessed by many of those interested in copper assaying, some other practical instructions may be not unacceptable.

The ore, in fine powder—say 100 grs.—is to be heated in muriatic seld, and nitric seld to be added, in small portions, at intervals, shaking all well together at each addition, until the last portion of nitric seld in set decomposed, and all the metallic matter is dissolved. The proportions of both selds may be varied, according to the quantities of metal present it is of muriatic seld is generally enough for 100 grs., but it is on, may be used if the ore is very rich, and a drachm of nitric seld will generally be enough for the richest ore—it may be added ten drops at a time, at first prutty quickly—say at intervals of two or three minutes; but as the of-structure and red vapours become less copious, the intervals must be longer—say first to ten minutes. As the metallic part falls first, after shaking, a little practice enables us to distinguish when some of it is left undiscolved, which may easily be effected within an hour. It is desirable to use as little nitric seld as possible, since any excess of this sold is undiscolved, which may easily be effected within an hour. It is desirable to the exact precipitation of the copper; on the other hand, a sufficient proportion most be employed, since any excess of this sold in unfavourable to the exact precipitation of the copper; on the other hand, a sufficient proportion off and expectably, washing the readons, or first pourse off and expectable, alone any residue of the iron prince and adding this water to the solution for evaporation. I penfect the latter method. We may also, now, convert the solution into sulphute, by addition of sulphucic acid due to depressely, washing the readons of sulphucic acid such tensus under the series and solution and depressely addition of sulphucic acid solution of sulphucic acid in the sum used, but may be emandified generally advantages. and of any lead which the sample might contain. It is not great conceasely where excuss of sixtle axid has not been send, but may be sidered generally advantageous. The proportion of sulphacis exid is required to be very exact. It may pretty generally be taken at a me measure for each grain disnoted. For this purpose, the robotion is poured off, the conidon washed with a little water, and the weshings at to the adention, the residue is to be dried and weighted. The deflerincrease its weight and the 100 grs. employed gives the quantity dis-colord; for example, suppose the residue to grs., the quantity dissolved is 100 - 65 - 25 grs.; add these to the solution, thirty-fire estatus (desp as you - did - in gra. I see these to the securior, there execution. The measures of anythesis work, and presented with the evaporation. The axid accept he added continuely, if the solution is hot. It will drive the marketic each with a cide, as well as the fluority, if fluor to present, it leaves the dry cases in the state of sulphasts. This way now be treated threated it the fluority fluority fluority, above quested, strongt that, as the hunt has anyloged is not supposed great enough to been anythis sulphasts are the further addition of this acid will not be requisite. I have been in the

practice of using only spirit of water for dilution, having never found any advantage in employing 2 lbs., as there ordered. The carbonaceous matter is easily washed away, as there stated, but this is not so fully the case with arseniate of iron, which sometimes falls with the copper when muriatic and nitric acids are the solvents—nor is it easy to prevent oxidation in drying. Both these cases falsify the assay by increasing the apparent produce in copper, and, in fact, it generally gives too much. It may be corrected by melting the produce with black flux in a small crucible, or even is a tobacco pipe, stopped at bottom, but much more readily by Plattner's process with the blowpipe, which, as this letter is long enough, shall be described in a further communication. Your's, Ac., munication. ribed in a further com Your's, he

Plymouth, April 1.

GENERAL MINING ASSOCIATION.

TO THE EDITOR OF THE MINISO JOURNAL.

R.—No report of the proceedings of this company baving ever apad before the public, I think some notice of their late unwarrantable
net towards the shareholders at their last meeting, held on the 11th of February, should be made known, I, therefore, hope you will give this

statement a place in your Journal.

This company was formed by Messrs. Rundel and Co., in 1824. After holding out the most brilliant prospects for seventeen years, the full This company was formed by Messre. Rundel and Co., is 1824. After holding out the most brilliant prospects for seventeen years, the full amount of shares were paid up last year. For the last three years so great were the profits represented to be, that assurances were made to the shareholders that, instead of any further deposits being called for (174. a share at that time only having been paid), the following year a dividend, the shareholders might be assured, would be announced; when the time arrived some plausible pretext was brought forward for a further delay of the promised dividend, and the unexpected necessity to make a further call of 14. a share; and thus have the shareholders, for the last three the promised dividend, and the unexpected necessity to make a further call of 1t. a share; and thus have the shareholders, for the last three years, been duped, until the full amount of 20t. per share was last year paid up. At the above-mentioned meeting the directors (who, I have strong grounds for believing, have themselves been benefiting) concoct a to extort a further sum of 21. a share from the unfortunate sharebolders, offering to such as might consent to such a further outlay 6 per cent, interest, to be paid out of the first profits, should any ever arise out of this unfortunate speculation; and the directors have the impudence to exclude all shareholders who will not submit to this further demand from any profits which may arise out of this concern till the 6 per cent. Is paid us, in a clandestine manner, reaping any advantages amongst them selves. In a chancesine manner, resping any avantages amongs themselves, in all other companies a certain number of the directors go out annually, and their reports are made openly to the public, but this company, like the mysterious proceedings of the Inquisition, sit in secret council to enrich themselves out of the purses of the unsuspecting shareholders.

I am, Sir, your obedient servant,

Landam, March 26.

An Observant Shareholders.

London, March 26.

[Such proceedings must be expected from all companies who dare not face the light. Why do not the shareholders, at the general meetings, insist on the reporters for the public press being present. We remember well the game played on the formation of the company. We then made extracts from the correspondence, for insertion in the Missing Review, but when it was found that we would not take garbled extracts, but preferred copying from the original correspondence for ourselves, we were no longer permitted to have accrea to the hooks of the company. We repeat, that it is the fault of the shareholders, they do not enforce those rights to which they can lay claim. Who, we would ask, are directors? but the paid officers of the company. In them is vested the patronage of appointments—they receive their salaries, undertaking to protect the interests of the shareholders, and to see that the sub-agents do their work—acquire information, in their public character, of which they off avail themselves for private interest—and yet are they regardless of public opinion, and, in tou many instances, as a body, pursue. gardiess of public opinion, and, in tou many instances, as a body, pursuance which, as individuals, they would be ashamed to acknowledge.

Late follows of a director of a purpose companies, whose character as a new late failure of a director of numerous companies, whose character as a mer-chant stood pre-eminently high, and who, moreover, filled the office of Bank director, should be a lesson to the many.

BRITISH IRON COMPANY.

BRITISH IRON COMPANY.

TO THE EDITION OF THE MINING JOURNAL.

Sin,—At the special general meeting of the British Iron Company, on the 25th ult., Mr. Larpent (the chairman) uttered aspersions on my character which I consider too serious to pass unnoticed. I therefore addressed a letter to him on the subject, on Tucaday last, but, as he has not thought proper to give any reply to that letter. I rely on your justice to insert the inclosed copy of it in your Journal to-morrow, which has already, with so much ability, attracted public attention to the concerns of this rulemany-compacted company.

Lam. Sir, your's, Acc., of this ruinously-conducted company.

I am, Sir, your's, &c., RICHARD CORT. of this reinously-conducted company. I am, Sir, your's, &c.,
[Mr. Cost will, we feel accured, appreciate the motive which influences
us in declining its give insertion to the copy of letter addressed to Mr. Larpent, accompanying the above. We regret that many questions of an impertant nature see too frequently tool night of by personalities being indesigned
in and, in the present instance, we feel that the real question at issue may
be marged or forgoiten in the consideration of attach and defence of personal
character. We have too high an opinion of Mr. Larpent, and the position
he helds in onciety, to suppose that he would avoid catering into the general
charge, and merely assues or divert his auditory by a personal attack on Mr.
Cost (which is the ground Mr. C. accument); and, on the other hand, we should
hope that the latter gentleman, having taken upon himself a Herculean task
worthat of chemoing the Augean stable—according to his own representations,
w. I mod allow himself to have his attention drawn from the subject. We
have personal the letter addressed to Mr. Larpent, and, so far as Mr. Cost's
statements go, we must say that the attachs, which we are given to understand were made, reflect discredit upon the author; but anxions as we are
to expose abuses, and at all times to go with the shareholders in an inquiry,
we must be excused if we decline giving forserion to a letter which, however
proper it may be considered as between individuals, in not, in our opinion,
one fitted for a public Journal. The letter, we think, might have been written
in a more cost and tomperate manner, for it appears to us that the style
itself previous the change of a reply. is a more cost and temperate manner itself precludes the chance of a reply

ON DIALLING.

TO THE ROSTON OF THE MINING JOURNAL.

Size. — You have kindly permitted the insertion of many letters on dialling in your much valued Journal, since the subject has been exhausted, in the hope, I suppose, that some practical information might be extracted from them. Presuming on your insulgence, I beg to offer a query or two, put in the form used by Mr. Budge, in your last paper, but the an-

two, put in the form used by Mr. Hungy, in your different materially —
George differe materially —
George different management and other management of the second of the s

to Modes in "created human tables" eartery.

"If the one person young work "I, the over the ground a second triated and at method — and the second creates of straffs padengs offers all placement. These the account action on the surface, of the second section, the south second section of the south second section.

her, chapper, or mine exercit method of taking a varyey.
go whateves, in combassion—" That our opposessa have a
touch the Govennap case, even with the point of a feather indeed, but the new version of the timenous story is evidently

I am, Sir, your obsolicat servant, R. Taxcasars. Person, March 30.

COLLIERY INSTRUCTION TO THE EDITION OF THE MINISH JOURNAL

The annexed paragraph is taken from a northern paper —"The d a series of hostores, comprepalar and scientific subjects, that have diversed once a firstnight to the inhabitants of Alletment, was given at that place on Monday evening, by Mr. Hunter, viewer, Backworth Calliney, to a numerouse and attentive sectionse. Among other interesting subjects brought before the meeting, there was an account of the coal attents in this district, and of the "Broathes" which have been emeasurement of ton; and those were well illustrated by diagrams and sections a racellest messer. The thanks of the meeting were corsecular in an excellent measure. The there's of the menting were con-nilly awarded to Mr. Hunder, and as it must be admitted that the least themperones would result from imparting uniful information to the red-ety population, some measure neight servicy be adopted at recey polithery for Presenting the mental improvement of pitmen."—Nivercent's Journal, 2004 Servic, 1941.—I send in to you, in hopes that, if contemion to insert it in the widely-divinished Jeneral, it will get more publicity amongst minutes,

nd may induce others to follow the laudable example of Mr. Hunter, " is and may induce others to follow the laudable example of Mr. Hunter, "in imparting ascful information to the colliery population." The improvement of the mental, moral, and social condition of the people must ever be a subject of deep interest with the wise and good; but while endowed universities, colleges, and schools have been provided for the rich, little has been done in this way for the poor. This, probably, may be partly accounted for by that most absurd feeling of degradation usually attached to personal labour, and particularly the labour of the miner. Those who move in what is called fashionable life, erroneously imagine that the minds of the working classes are as coarse as their manners, and that to attempt to cultivate either is Utopian, or at least a Herculean task; this, however, is not the fact, we have every day evidences to the contrary presented to our notice. What working men lack in intellectual instruction, it too often comes to them through the sorrows of the heart—witness the philanthropic spark that is lighted up in the breast of the poor miner when any of his fellow-workmen are in danger, as he rusbes to the rescue, and not unfrequently falls a victim to his own temerity; on other occasions unfrequently falls a victim to his own temerity; on other occas not unfrequently falls a victim to his own temerity; on other occasions he contributes out of his slender income to the necessities of his comrades when sickness or other misfortunes assail them. Many other good qualities of the heart might be recounted, which ought to put to the blush those who, "arrayed in a little brief authority," treat the poor man with inscience and as an inferior being. Working men are not only greatly interested in the advancement of education amongst those of their own class, but also in getting a better education for those that are set over them.

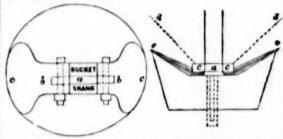
I remain, Sir, your's, Ac.,

March 29. A WORKMAN. March 29.

(We are obliged to our correspondent for having directed our attention to the series of lectures referred to in his letter. It is highly presiseworthy on the part of Mr. Hunter (as a colliery viewer) to afford to those under him, as well as others employed in collieries, that information which his experience well as others employed in collieries, that information which his experies has enabled him to acquire, for it is equally to the interest of the capitali as it is to the security and well doing of the miner, that the latter shou possess more information than simply the use of the pick. Taking ages "from the ranks," is a course we have ever approved, and, without instruction be afforded them, to assist their observations underground, we fet that as is too frequently the case, agents will continue to be appointed we lack that information which can alone be useful, however scientific may their attainments—that of a knowledge of underground works, the nature the strain, and the works a man ed. the strata, and the work a man can do.]

IMPROVED PLAN FOR RAISING MINE PUMPS.

Sig.—I beg to hand you a plan, much simpler than the one inserted in your Journal of the 20th March, for drawing a set of pumps. Thirty fathoms were drawn north of the Tyne lately, sizteen inches in diameter, by it; the whole was done at a tenth of the expense of Arthur and Eddy's

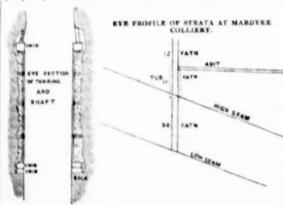


The above is done by putting a hole through the bucket shank a, in it inserting a piece of square iron, δ , having two holes—a pair of iron falls, rather long, for the bucket shell, are by a bolt attached to the square iron bar; these are of three-eighths boiler plate, laid with steel at c, and ground; as the bucket is lowered, the falls rise in the direction of d, and and their place, and hold on applying the strain.

I am, Sir, your obedient servant,

EDWARD STANLEY. Sunderland, March 23. CAST-IRON TUBBING.

Sin,—Having lately had the honour of directing the application of a cast-iron tab, for the stopping back of water at Mardyke Colliery, the property of the Irish Mining Company, and, as it is the first attempt of the acrt in Ireland, I submit a short description of it to your notice. The olliery contains two principal seams of coal, lying at an angle of one is three. The upper one, lying at the depth of twenty-two fathons, is ex-hausted; and in order to win the second seam, at the depth of thirty fa-thoms further, the waters of the upper seam were required to be either pumped up to the natural adit (twelve fathoms from surface), or to be



forced up to that point of discharge by tubbing. In order to give this project a fair chance, a piece of five-clay, lying below the first seam, was taken advantage of as a foundation, and the shaft was rounded out to ten first diameter. The base of tubbing is made to rest upon a pair of caken orths, fitted closely to the fire-clay foundation, and wedged from behind as long as ever a wooslon wedge can be driven. This done, the cast-iron tub begins to be built, consisting of cast-iron segments, four feet long, two feet high, and three-quarters of an inch thick, with a rectangular flange all round, of three inches; between each of three segments are flange all round, of three inches; between each of these segments a placed half-inch (end ways) fir deal, wherein to wedge; the space betwee the segments and the ruck is also stuffed with small stones, and tighten with wood. The top of the segments was completed by a wooden crib, which was stayed fast against the superincumbent rock, and then the whole fabric underwent the most severe wedging so long as any leak contioned; and, when finished, the shaft was laid perfectly dry, with the feeder of mater discharging out at adit twelve fathoms, above, and the sinking of the shaft renumed perfectly dry. The pressure against every square inch-of the lower range of tubbing is equal to two and a half atmospheres, or about 3.7 lbs. per inch, and, taking the average altitude at thirty six feet, the whole tub is sustaining a pressure of about \$1,200 tone; and an complate is the job, that the sinking has been since carried on without any out water is discharging at the adit as would give employed end to a heavy engine.

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It is often found convenient to surmanat these tales with a sufficient quantity of stone walling, to enable the wedging to be made effective.

Some years ago I effected the "winning" of a shaft, thirty fatherms deep, at Castle Comer, in the same county, by means of a plank tubbing, of ten fatherms in length. constructed of three inch plants, a, spiked again cribs, å, and supported again by a range of maids cribs, c. which were in their turn clead with common deals; this which were in their turn cloud with common deals; this mode of stopping water was practised for many years in some, previous to the invention of cast-iron tabbing.

I san, Sir, your's, day, Newcastin-on-Tyne, Merch 22. M. Denn.

ON THE QUESTION OF POOR RATES CHARGEABLE ON MINES IN IRELAND.

TO THE EDITOR OF THE MINING JOURNAL.

SIR,—Noticing in one of your late Numbers some remarks on the question of Poor Rates chargeable on mines in Ireland, I beg to send you a copy of two enactments of the Act of Parliament, from the first of which will perceive that half of the rate is to be borne by the landlord, the second it will be noticed, that any reservation in a lease by lord, for freedom from rates, is not applicable to the novel question. m in a lease by the Irish Poor Rates. I am, Sir, your's, &c.

Irish Poor Rates.

Rathdram, March 29.

74.—And be it enacted, that where the person occupying such property shall be lable to pay a rest in respect of the same, he may deduct from such rest for each pound of the rest which he shall be liable to to pay, one half of the sum which he shall have paid as rate in respect of each pound of the set annual value (whether such rest shall be greater or less than such set annual value), and so is proportion for any less sum than a pound.

77.—Provided also, and be it enacted, that any covenant or agreement whereby my person liable to pay rent, and entitled, under the provisions of this Act, to dejuct therefrom any rate, or portion of rate, shall have covenanted or agreed, or hall hereafter covenant or agree, to forego such deduction, shall, so far as such ate is concerned, be of no effect.

Properties subject to the rates, see Irish Pays Lam Act, along the beliffing account.

mines, &c.

[We are obliged to "Hibernian" for directing attention to the two clauses in the Irish Poor Law Act, appended to his note. It certainly does appear by clause 74, that the mine adventurer is entitled to deduct one-half of the rate from the rent payable, while clause 77 cracts, that if the tenant has covenanted to pay any rate, or portion of rate, he shall not be called upon to do so, so far as the poor-rate is concerned, and hence the rate must fall upon the landlord. This seems to us very Hibernian, and perhaps our correspondent will explain his letter in a postscript next week. Query.—Does rent and royalty bear the same construction.]

ON THE PURIFICATION OF GOLD.

ON THE PURIFICATION OF GOLD.

BY LEWIS THOMPSON, ESQ.

(The sum of Twenty Guineas was presented by the Society of Arts to the author, for the following communication on his method of purifying gold.)

In the common mode of assaying gold, the alloy to be assayed is subjected to two operations, cupellation and parting, each of which requires great care and skill; so much so indeed that success seems rather to be the effect of a particular tact on the part of the assayer than the result of a well-defined chemical process. The plan which I now propose for assaying and purifying gold is no less simple in execution than certain in effect, and is founded upon a circumstance long known to chemists—viz., that not only has gold no affinity for chlorine at a red heat, but that it actually parts with it at that temperature, although previously combined; that is to say, the chloride of gold is reduced to the metallic state by heat alone, it cannot, therefore, possess any affinity for chlorine when red-hot; this, however, is not the case with those metals with which gold is usually alloyed, it offers, therefore, at once an easy and certain means. is usually alloyed, it offers, therefore, at once an easy and certain means of separation. The application of these facts is all, therefore, to which I can lay claim, as the facts themselves have been known for many years, and the reason why they have not been so applied is, that hitherto che-mists have not directed their attention to this art, but have left it entirely in the hands of the assayers, who are, for the most part, ignorant of chemistry. The process here proposed has been abundantly tested by myself and others, and employed by those wholly unacquainted with chemistry, as well as by men of eminence in that science, with equal success. There is, indeed, but one source of failure, and this arises from the intense ac-tion of chlorine upon the baser metals when melted, by which portions of tion of chlorine upon the baser metals when melted, by which portions of the alloy are spirted up or projected from the cupel, as happens in the common mode of assaying silver when the heat is too great. This incon-venience is to be avoided in two ways. Firstly, by allowing the chlorine to be evolved slowly at the commencement of the operation, by which the intensity of the action at first is diminished, until the relative propor-tion of gold in the alloy is increased; or, secondly, by passing the chlo-rine over the alloy is powder, or laminated into a thin plate at a dull red rine over the alloy in powder, or laminated into a thin plate at a dull red heat for a few minutes, and then raising the temperature so as to melt it when the fames of the metallic chlorides have visibly diminished. In conclusion, I can only add, that a very little practice will enable any one in possession of a good balance to make assays of gold with the greatest accuracy. In a course of experiments, conducted at Guy's Hospital, in the presence of Mr. A. Aikin and other scientific gentlemen, a piece of gold was twice alloyed, and then purified by chlorine, without any sensible loss when weighed in a balance which readily turned with the one-hundredth of a grain.

The furnace which I employ for the process is made out of one of those pots employed for melting sizel, and which cost about 1s. 6d. each. They are from fourteen to sisteen inches in height, and consist princi-They are from fourteen to sixteen inches in height, and consist principally of Stourbridge clay and coke. Their form is rather peculiar, as the upper part is contracted so as to form a kind of dome, as in the figure. They are so soft as to be easily cut with a knife; and I have been thus far particular in describing them, because the practical chemist will find them of great use in the laboratory for small furnace operations. One of these pots, then, is pierced near the bottom with four holes, at equal distances from each other and from the bottom; parallel to and between them, but about two inches higher up, another row of similar holes is placed, the whole of which holes should be from a half to three-fourths of an inch in diameter; about three inches above these the sides of the pot are perforated with two larger holes of at least one inch in diameter. These must be diametrically opposed to each other, and upon the same level, i.e., at equal distances from the buttom.

pot are perforated with two larger holes of at least one inch in diameter. These must be diametrically opposed to each other, and upon the same level, i. e. at equal distances from the bottom. The furnace is now finished. To assay gold, place an earthenware tube in the two upper holes, and light the furnace (a mixture of coke and charcoal answers best, though coke alone will do); when the two is seen to be white-hot, place in it the alloy contained in a little cupel made of home-sah, and push it along to the centre of the furnace by means of a wire, then connect one end of the tube with a bottle in which chlorine is forming from a mixture of peroxide of manganess and muristic acid; the chlorine will, consequently, pass along the heated tube and over the melted alloy, with the silver, copper, Ac., of which it will combine and leave the gold pure and untouched. During the process dense fumes may be observed to fill the tube, and when these are no longer produced the process is finished; the cupel may these are no longer produced the process is finished; the cupel may now be withdrawn, and the gold removed and weighed.



PARCALFIUM.

A A-Steel p.t.

B B-H-House for the admission of sir.
C C.—Hoses for the admission of the tube.

D D The tube placed borizontally in the furnace, containing

E.—The cupil and publ.

F.—The bottle is which chloring is generated.

ARFORT OF ARTHUR AIKIN, ESQ., F.L.C., ETC.,

The experiments above alluded to, as having been made in my laboratory, were conducted by Mr. Thompson himself, under my imprection. The gold was obtained from an assayer, and was stated to be perfectly pure; but in many instances, on being subjected at a melting heat to the action of chlorine gas, a very small diministion of weight was observed, occasioned, no doubt, by the volatilisation of a little alloy, for the button of gold underwent no further diministion whatever on a repetition of the process. The gold thus purified was mixed with effect and copper, or with silver and breast; and, being put into a small porceduin free, with a little chall. norrelain fray, v common salt, was slidden restionely or common salt, was slidden emitionally to the bottest part of the tube. When the alloy was judged to be melted, chlorine gas was passed in at one end of the tube, the other being left quite open or communicating with a small glass retort to collect the veletile products. A dense yellowish vapour almost immediately filled the tube, part of which concreted in the sum expect almost interest active from the tenter, part or which concreted in the and of the tube; the remainder passed into the refort, lining it with a brownish-yellow creek, or, if a little water had been put into the resort, preshering a greenish liquor, which, by the usual bests, was shown to contain chlorides of copper, zine, and iron. The latter was, no doubt, derived from the foreignment clay of which the tube lattice was, no doubt, derived from the ferraginess clay of which the tube was made, for the leade of it, after the procuse, was found to be nearly

white. On examining the contents of the tray, after the production of vapore had consed, the bottom of gold was found included in a motived mass of chievale of solution (or chievale of coloride of solutions, if chall had been put into the tray) mixed with chloride of silver, the persence of alkaline chloride seeming to have the property of preventing the volatilisation of chloride of nilver, In all the first trials, the button of gold was found to weigh considerably less than before the process, and the nonlectual breaking of one of

the tubes showed that in the part directly over the tray several globules of gold adhered, having probably been thrown up thither by the ebullition of the alloy when the chlorine was first passed over it. Having thus discovered the cause of the failure, the process was twice more repeated, taking care to give only a low red heat in the beginning, and to pass the chlorine slowly. With these precautions, the button of gold, remaining at the end of the process, was found to be exactly equal to its original weight as shown by a balance that indicated well to the wheth part of a grain.

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PROCEEDINGS OF PUBLIC COMPANIES.

BRITISH IRON COMPANY.

A meeting of the "United Shareholders" of this company took place on Friday, the 2d instant, at Castle-court, Budge-row.

Major Richarabson in the chair.

The Charmman proceeded to state, that in the fulfilment of the difficult duty devolving on the trustees, the first step they had taken was to obtain counsel's opinion, as to the power of the directors in enforcing payment of calls by action, which having been obtained, he was happy to say was in perfect accordance with the opinion expressed by him on former occasions, inasmuch that the opinion of counsel, confirmatory of his own, was, that no action for recovery of calls could be sustained by the directors against any shareholder. To enable, however, the proprietors present to judge whether the case was fairly drawn, or that he had fairly expressed the opinions of counsel, he would cause those instruments to be read.—[The case and opinion of counsel were then read to the meeting by the solicitor, which evidently met with their-concurrence.]—

He (Major Richardson) proceeded to remark, with much warmth, on the directors having shrunk from inquiry, which was, in liself, sufficient to engender suspicion, even if they were honest in their intentions, and which at once convinced the proprietors, that the only course to be pursued was one of energetic action, to prevent another million of their capital being fristered away. A Bill of Discovery had been determined upon, the result of which would prove the rights of the shareholders, and expose the system which had been pursued by the directors. Having remarked on the illegal acts of the board, in reducing the interest required to be held by them—the alteration in the capital of the company, being first reduced one-half, and subsequently increased—these, and other acts, in the opinion of the chairman, and supported as such was by a most eminent equity hower, satisfied him that the directors, instead of abstracting further funds one-half, and subsequently increased—these, and other acts, in the optimion of the chairman, and supported as such was by a most emittent equity lawyer, satisfied him that the directors, instead of abstracting further funds from their pockets, must refund. He then proceeded at some length to enter into the several matters at issue between the directors and the share-holders, which he explained in a very lucid manner, but as they must form subject of legal discussion, we feel that we best serve the interests of all parties in not giving publicity to them. The earnestness with which the chairman has taken up the cause, aided by Mr. Cort, is highly praise-worthy, and will, doubtless, enlist many shareholders in the cause. The several resolutions (as will be found in our advertising columns) were submitted to the meeting, and some observations having been made thereon, were passed unanimously.

On the occasion of the second resolution being moved, the Chairman strongly advocated it as a measure of vital importance; some of the pro-

On the occasion of the second resolution being moved, the Chainman strongly advocated it as a measure of vital importance; some of the proprietors had, he doubted not, heard it rumoured that the directors, despite of what had taken place, were actually concocting plans for raising the 250,000L to pay Mr. Attwood by debentures; still, in the present position of joint-stock companies with the public, for his part, he had no fear of their success—even at the interest offered of 6 or 7 per cent.; they (the committee) had made overtures to the directors, with the view of coming to an amicable adjustment, but unsuccessfully. He piaced implicit reliance on their counsel's opinion, and upon that he would stand or fall.

or fall.

A STARRHOLDER said, that he was not aware if the grand objection urged by Mr. Attwood was known to the gentlemen present, against the estate being given up, which was, that, under such circumstances, they would be under the necessity of removing everything from the estate; but he thought, from the symptoms he had just seen, the threats of Mr. Attwood would not have the desired effect.—A conversation on the subject enemed, and a subscription having been entered into, thanks were voted to the chairman, and the meeting teparated.

We may observe, that a gentleman attended to take notes of the proceedings on behalf of the directors of the company, but, as the meeting were of opinion that he could only attend as a reporter for the press, he withdrew.

GREAT WHEAL CHARLOTTE MINING ASSOCIATION.

GREAT WHEAL CHARLOTTE MINING ASSOCIATION.

A apecial general maeting of the shareholders of this association was held as Monday last, at the George and Valture Tavern, Corahill, to confirm the resolutions of the 13th silt.

The advertisement calling the meeting having been read, and the minutes of the meeting of the 13th March confirmed, the manager's letter, of the 27th March, was then read, as follows:—"I have the pleasure of reporting to you the progress made in our works during the past mouth. The eighty-two fabbon level wort has been driven two fathoms, and the men have now out through the land, which is two feet wide, sparry, with some stones of ore, the topology of the same than been driven two fathoms also by the side of the lode, and the men see now cutting through it; it is a hard sparry inde, with some spots of ore, but poor. There is a great deal of water coming out of each of these levels. We could not expect to meet with much ore in these levels until we got father from the shaft, as it has always been poor in the ground near the shaft. The seventy-two weet has been holed in the winze from the sixty-two; it continued to improve as long as we drove it. The men who are employed in this level and in the wince are now stoping some ground where the communication between the level and the winze was made. We hope to start them to drive went in about a fortnight. The seventy-two eath has been holed to the winze from the sixty-two east, and we are now stoping the back of this level. The westers winze in the sixty two has been anok there fathous during the munth; the lode is about fact wide; if has become closer and more expositive to break, but has improved somewhat in productiveness. The bargains set to-day are—The eighty-two east and west, by all mee, each at 12t, see, ditto. The other stopes we have not not then before we fix their prices. We shall sample on Twentage ground in them before we fix their prices. We shall sample on Twentage from the siers helde in the waters, as left us very little advantag

WEST LONDON BAILWAY COMPANY.

A special general secting of the shareholders of this company was held at heir office, 11, Absharch-lose, on Monday, the 19th sit.

W. Monna N. Esq., depend convenue), in the chair.

The Secnerany read the advertisement convening the meeting and the instance report, which stated that the remistion of the 7th Oxfoler, Issue & Sule Consequence of which it became the duty of the discretizes to

their rules at the point of intersection, and thought no advantageous arrangement could be made with them; he dissented from the proposed plan, and urged the proprietors against the adoption of it; in the absence of the most important information, he moved, as an amendment, for an adjournment to the 5th April, and so on from week to week, until the proprietors he fully informed on the subject.—Mr. Surpunns seconded the motion for an adjournment, and said that Mr. White's plan deserved the directors' consideration.—The motion was then put, and lost.

Mr. Duncombe's motion out a then put, and lost.

Mr. Duncombe's motion not having been seconded, was then put as an amendment, and, upon the show of hands being called, there appeared for the amendment, 12; against it, 13—majority against it, 1.

In reply to Lord Kensington, Mr. Biddown for 32,0001,, but Mr. Stephenson, that the line could be laid down for 32,0001,, but Mr. Stephenson can on upinion as to the profitable results of such plan; he observed, with regard to the continuation to the Uxbridge-road, the mere loading and unloading of coals, upon which Mr. White placed much reliance, would exceed the exponse of conveyance by carts, therefore no possible benefit could arise from its completion to that point; with regard to the alteration made by the Great Western Railway Company, they had done on more than was accessary, to coable them to cross their line.

The day for the adjournment was fixed for the 5th of April, after which the meeting separated.

DUBLIN AND KINGSTOWN RAILWAY.

DUBLIN AND KINGSTOWN RAILWAY.

DUBLIN AND KINGSTOWN RAILWAY.

The annual meeting of the proprietors of this company took place at their offices, Westland-row, Dublin, yesterday week.

Joseph Kincarth, Eng., in the chair.

Mr. J. Pin (treasurer) read the minutes of the last meeting, and the report, which stated that the results of the last twelve months' working had been highly satisfactory—the gross income from all sources being 37411. 2s. 1d. over that of the preceding year; the miles travelled by the trains amounted to 136,728, and the cost of locomotive power is. 3dd, per train per mile. At the last general meeting a plan of family tickets had been adopted, which appears to have given great satisfaction, and it is expected as the advantages of this arrangement become better understood it will be more generally adopted. A new engine, the Foundall, has been constructed, with improvements in the mode of working the valves, which has had the effect of considerably reducing her consumption of fuel; two new engines are also in progress—one of which (the first ever constructed in Ireland) is very nearly completed. The profits of the past year amount to 17,1826, 14s. 9d.; after payment of the terminable annuity to the Board of Works, and of interest on loans, a balance of 10,1596, 19s. 2d. remains, from which one-cighth is to be added to the reserve fund; the directors recommended that a dividend of 4d, per share should be declared, which would leave a surplus of 816d, 1ss. 4d., to be carried to the credit of the next seconds. The vacancies at the board, caused by the resignation of Messrs. B. Twigg and G. William and G. Pice.

The directors having stated their intention of extending the railway to

G. Pice.

The directors having stated their intention of extending the railway to Daihey, much conversation ensured, and the suggration appeared to be generally approved; a new station is to be erected at the terminus at Kingstown.—Thanks were voted to the chairman, and the meeting adjourned.

VAN DIEMEN'S LAND COMPANY.

VAN DIEMEN'S LAND COMPANY.

The annual meeting of the proprietors of this company took pince at the company's office, Old Broad-street, on Monday, the 29th ult.

W. BURNER, Esq. (the governor), in the chair.

The SECRETARY read the report, which contained the following comparative statement of their stocks in 1839 and 1840:—11 appears the total number of their stock, in 1840, was 11,002; in 1839, 9535—abowing an increase in 1840 of 1817; and their comparative values were, in 1840, 48,493.

—in 1839, 41,6084.; and the value of the increase was estimated at 3896f. The comparative return of land under tillage was, in 1840, 1072‡ acres, and, in 1839, 1031‡ acres.—being an increase in 1840 of 41‡ acres.

The CHAIRMAN then observed, that the most important feature is the report was the change of their agent in the colony—circumstances had rendered the change necessary, not that the integrity of the present agent was at all questioard. Mr. Gibson, the party selected to be the agent, was possessed of great local knowledge, and was alive to the importance of respectable tenantry on the company's property, upon which the success of the company greatly depended. With respect to the company's property in the colony, he would briefly call the attention of the meeting to that point; the original cost of the live stock on their land was 20,4234, and last year it was valued at 43,900. The value of stores, &c., on hand was 90,0006, and the company had 350,000 acres of land, which, including the expenditure of clearing 160 miles of rond, fencing an area of 40,000 acres, &c., was valued at 218,7806.; while the capital advanced by the proprietors was now 180,000f, it had been a properous state. The assignment system was now a matter for their consideration. Convicts would at 218,7806.; while the capital advanced by the proprietors was now 180,000f, it had been considered to a period when their land would be well cultivated; the survey would soon be completed of the remaining portion of their land; the company might increase their

TOWER HAMLETS CEMETERY.

TOWER HAMLETS CEMETERY.

A meeting of the shareholders of this company was held at the Guorge and Vulture Tavers, on Wednesday, the hiet uit.

Mr. Deputy Gramm in the chair.

A report from the directors on the present state of the undertaking was presented. The enclosure of the site is proceeding, and it contains about thirty acres behind the Merchant Seamen's Orphan Asylum in the Mile End cond, and immediately odjoins the site of the intended park for the re-creation of the inchabitants of the reast end of the metropolis. The respect of the directors announced that leave had been obtained to introduce the hill, but that the shares already takes did not quite amount to the proportion required by the rules of the House of Commons. It also referred to the pumpets of success, and the hearers were so well satisfied, that 400 10f. shares were subscribed for in the russe.

IMPORTANT TO SHARRHOLDERA.—It is not, perhaps, so generally known as it ought to be, that all persons can process copies of registered lists of shareholders in any of the joint stock banks, for a nominal sum, on applying at the clamps and tax department of Somerast-house.

applying at the stamps and tax department of Somerast-house.

Paretry or Gas and Wayan Courantes.—In the House of Commons, on Thursday evening, Mr. Brothorton having moved that further proceedings on the third reading of the Birkenhead Gas and Water-Works Company Boll be postponed until the 27th of April, Mr. Sheil stated, that it was the intention of Government in all future bills relating to gas and waterworks companies, to require the insertion of a clause, limiting the amount of profits to be derived to 10 per cent; he thought that this afforded a sufficient profit, and he objected to the bill now before the House proceeding any farther in its present state, on the ground of its permitting a profit of 13 per cont. to be derived; he proposed that any surplus profit which should be derived should be applied to the reduction of the rates.—The motion was then agreed to.

directions' expect, which started that the resolution of the 7th Ortober, 1900, had fished, is consequence of which is became the duty of the directions are not considered that the resolution of the 7th Ortober, 1900, had fished, is consequence of which is become the duty of the directions that the resolution of their adoption is their present line into operation as seen at possible, and they therefore proposed to by a single line of rails from the Green's Function. Canal to the Kresnington Canal Basis is define a seen of successive the requirement of the directions of the direction of the directions of the direction of the directions of the directions of the directions of the directions of the direction of the direction of the directions of the direction of

Improved Metrop of Treates.—In another column will be found a description of the process for a new mode of tinning, by which iron is completely protected from oxidation; this is effected by forming an anal-gam of iron, nickel, and tin, which is applied to the metal in the usual manner. The Editor of the Intentions' Advector states that he has seen several specimens of sheet-iron tinned in this manner, in which the coating of tin seems much more perfect than is obtained by the ordinary process, and that it has been tested by submitting it to the action of the strongest actic acid without being in the lesst affected. This will, consequently, prove of the greatest importance in the manufacture of tinned iron vessels, for it is well known, that the present mode of tinning affords a very inadequate protection against corrosion.

Blackwall Railway—Barakino or the Born.—On Wednesday

iron vessels, for it is well known, that the present mode of tinning affords a very inadequate protection against corrosion.

BLACKWALL RAILWAY—BREAKING OF THE BOTH,—On Wednesday morning, as the West India train, on its way to town, had reached within about eight or ten yards of the roller upon which the rope is coiled, the rope mapped in two, and six or seven yards of it, which had not reached the roller, swung about with a force and velocity which threatened instant destruction to everything within its reach. The conductor of the train, observing the danger, used every effort in his power, by means of the check-wheel, to stop the train at once, so as to prevent its coming within reach of the rope; but, finding this impossible, he with much dexterity and presence of mind, went right on and passed over the roller, intending by this means to get beyond the reach of danger on the west side of the wheel. Unfortunately he was not enabled to do so, and the train stopped in zuch a position, that the end of the broken rope, in its evolution, struck the hindmost carriage with such violence, three or four times, as to do it considerable injury; but at length the engine was stopped, and further mischief prevented. Fortunately seven or eight passengers, who were in the carriage that was injured, got out with great alserity the moment the train stopped, and thus escaped injury; but had they not all been active persons, and made the best use of their limbs, there is no calculating the extent of nigury that might have taken place by the occurrence. The rope was "spliced," and in about twenty minutes the train was again able to travel.—[We learn that a mile of Smith's wire rope has been supplied within the past week, which will, doubtless, ere long, be used for the entire line—the short length, which has been in action for the past eight months, being reported as good as when first applied.—ED. M. J.]

Commencial Bank of London has purchased the premises formed that the Commercial Bank of London has purchased

menths, being reported as good as when first applied.—En. M. J.]

Commencial Bank of London has purchased the premises formerly belonging to Messers. Weight and Co., in Henrietta-street, Covent-garden, lately vescated by the London Joint-Stock Banking Company. It is also stated that the Commercial Banking Company have promised some provision, in proportion to the profits of the concern, for the family of Mr. Weight Biddulph, who has been rained by the faiture of Messers. Wright and Co. We assume that this benefit to Mr. Wright Biddulph's family is in consequence of some wealthy members of the Catholic community having transferred their banking business to the Commercial Banking Company. No doubt they are satisfied of the solidity and good management of the concern; and, being so, their giving it their support for so worthy an object is most honourable to them in every view.

Forsul, Ordanic Remains.—Mr. Pattison, P.G.S. (of Launceston).

Fossil. ORGANIC REMAINS.—Mr. Pattison, F.G.S. (of Launceston), has presented the Royal Institution of Cornwall with an interesting series of fessil organic remains from the alate quarries at Tintagel.

FROM THE LONDON GAZETTS.

Tuesday, March 30.

INCLINATE.

Harch 27.—F. Roberts and C. Rowe, New Bridge-street, Blackfriars, milliners. 20.—Fhomas Bash, New Windsor, inninequer.

BANKRIPTCY ENLARGED.

John Mace, Tottenium-court-road virtualize, from April 9 to April 20.

BANKRIPTCY ANNULLED.

Thomas Robinson, Huston Norte, Lancablize, provision dealer.

BANKRUPTS.

No. 18 November 1, November 1, November 1, November 1, November 1, No. 18, No.

Pareiva's Inc.

Dividence.

April 22, T. W. Horder, Pencharch dreed, chemiet 25, W. Hart, Newport, Hampebire, schoolmaster 21, H. Newton, Regent street, side mercur 22, S. Chappel, Lawrence lane, betcher J. W. M. S. Martin's Fe. Grand, we fine dreed T. and T. Brown, Manaell street, Goodman's fields, plumbers 21, G. R. Leefe and J. Yeles, Fode street, windende faste clashers 20, W. Stophous n. Louis, wonder stranger 21, J. Nicholon, Halifas, Verkalitz, insteaders at Willey, High-town, Verkabitz, card maker 21, W. Morris, Halifas, Verkalitz, with drawners, R. Wood, Cheefe, insharper 3, I hody, Stochpart, Cheslatz, entre drawners, R. Wood, Cheefe, insharper 3, I hody, Stochpart, Cheslatz, cardinary, on or before April 20.

J. A. Chale, Kennelegeno place, Vancok cause be shown in the contrary, on or J. A. Chale, Kennelegeno place, Van chall-road, bill broker—J. Startin. Warwick, suggests and Wischneitz street, shipsware—S. P. Ward, Liverpool, son. ©1 stewer—J. Williams, Natherth, Fembrukoshire, givene alsophreper—M. A. hen, Wischneitz, gracer—J. and C. Towssend, Londs, joiners.

Friday, April 2.

INSULVENT. April I.—Thomas Garlick, Greenwick, carpenter.

DANKSUPPEY ENLANCES.

William Forder, Philipst lane, graver, from April 20, April 22,

BANKSUPPEY SUPERBERS.

William Siebard Kemp, Eastedoup, wholesain groung.

and W Stran, Grant Towns of, too brokers. [Probided, New Stank Southlings, G. Hedden and E. Y. Cherke, Strand street, warriconscense. [Worsland Eliza

B. G. Hedden and B. Y. Clerke, Brand street, warnismerence. [Worst and Ebis. Crathet, court, Giracethorn's street.

B. Missien and B. Restin. Great Yieldy-hans, Brand street, Chempolds, from fayture. [Physics, Weavers', Ind., Basinghall street.

B. Kreith, Beich hans, hydicalisatio, victualize. (Largy, Brow-hans, Chempolds, W. Londynan, King Williams etcod, City, mouthant. (Rickman, Ring Williams etc.), Tapp, Willymore d., O. Maryintone, cross-hones.

C. Tapp, Wigneror d., O. Maryintone, cross-hones.

J. Bugert, Mark-hans, broker. [Bedon and Marrisson, Austindrians.]

J. Brag, you., Kagworth, commons income. [Social Liverin's law field.

J. Brag, you., Kagworth, commons income. [Social Liverin's law field.

Marks, Darsier, Glovon termine, woul broker. [City, Grown-street place. cl. Harks-worth, Sheffield, edge brod samella-farer. [Bedy & Co., Chaprony-lane, J. Worts, Wednesdowy, Ball. sinkiro, common monofacturer. [Miller, Social Section.]

Watta, Wednesdowy, Madicalders, comment monofacturer. [Miller, Sackettle street, Frenchilly.]
Willerton, Swinesbrad, Lincola diers, wood brover. [Boll & Ch., Row Chousingard. Case, Sorone-blerings, Vorbalizer, general. Harmines and Con., Row Streeth die. Hermines and Cond. Company's Works, Glazuryamskillo, general shopkerper. (Chebe and Madeust, Lincolaire Innoduces.

B. Hay ward, Chapmanestade, Wilterlier, so many seriespass. [Hardy, Considerated, Chapmany lane.

April 10, W. Smith, Hatten par en, April 10. W Sauth, Hadlen garven, entéred material, Green, Un, la Wharz City rend, radi factor of Coren, W. Americ, B. E. Celein, Y. Americana, and D. Alessie, Calcular, T. Americana, J. B. Hedder, Rend Green, Chengolin, Manchester were because many defended from the control of the second devent, and the control of the complete control of the contro

calino printers.

Castifficates to be granted, unless cause to shows to the contrary, on as before Agril 25.

B. Morling and J. Mailling, Manchester, and J. Mailling, Machiner, and J. Mailling, Manchester, and J. Mailling, Manchester, and J. Mailling, Manchester, and J. Marting, Manchester, and Marting, No., Unreading, Lancastellin, Locksquer, E. Parland, Manchester, als morehand at B. Marting, Commonly, Martinger, Labor, W. Marting, Function straight statement—B. Darlin, Walter, and Martinger, and

LATEST PRICES OF FUNDS, SHARES, ETC.

n Bonds, 5 per Cent., 10: , 5 per Cent., 585 9; , 8 per Cent., 574 785 , 25 per Cent., 514 8 , 5 per Cent., 974 8 n, 5 per Cent., 1105 111

ENGLISH PUNDS.

N. w 24 per Centa., 985 2

Exchequer Bills, 9 11 pm. FOREIGN FUNDS. PORIOS.

Portoguese, à per Cent., 54 à
Ditto, 3 per Cent., 20 à
Byanish, Actives, à per cent., 22 à
Chill, 4 per Cent., 56 61
Colombian, 6 per Cent., 23 à
Mexican, 5 per Cent., 23 à

m, 5 per Cent., 110g 111

BHARES.

n & Blackwall R'way, 6 hi dis.
n and Brighton, 45 | 3 per sh.
n and Croydon, 124 | 15 per sh.
n and Birmingham, 45 7 pm.
North Michand, 24 5 dis.
North Eastern, 15 | 15 dis.
North Michand, 24 5 dis.
North Michand, 24 dis.
North Michand, 25 dis.
North Michand, 27 dis.

MONEY MARKET AND CITY NEWS.

MONEY MARKET AND UIT NEWS.

SATURDAY.—Although the general feeting in the English stock' effarket is in favour of advance, the anxiety feit for the arrival of the President accounts for these having been no extensive transactions entered into.

In the foreign securities the only matter that requires alluding to is the improvement in Portuguese stock, some speculative purchases having been made; the 2 per Cents, were finally quoted 22t to 52, and the 3 per Cents, when have been steady, with a fair business.—London Joint Stock Bank, 114 to 12; Union of Australia, 22.

MONDAY As meaning feeling still existing as to what news will be brought by

Ballyway shares have been steady, with a fair business.—London Joint Stock Bank, 114 to 12 Union of Australia, 22.

MONDAY.—An unexay feeling still existing as to what news will be brought by the President, the English stocks have been to rather an agitated state. Consols for Money opened ed., declined to sulp, and left off ed to 1, for the Account they opened my, tenched my, and slosed my saliers. New 25 per Cents. left off 27g, and Encheques Bills, is to 7a. pm.

Business was principally directed to Portuguesse stock, which was in speculative demand at the high p less of 3 g, and even reached 21g during the day, but, after the meeting of bondicolders, held this morning, 18s value condenly declined about 1 per cent., closing very unsteady. The opening price of the 5 per Cents was 24g, seen back, after an advance to 1, to 35, and finally closed 34g to 3, the 7 per Cents. were last quoted 12g to 2, after being 24g, 8 penish Actives closed 25g to 1, Dutch 29 per Cents. 16g to 2; disto 5 per Cents., 10g to 10g; Cotombian, 21g to 21g, and heaten, 72g to 24g.

Birmoglaum shares were last quoted 41 to 3 pm., ex the new shares, Brighton, 6 to ha disc, Blackwell, 6 to be disc, Great Western, 24 to 5 pm., ex div., ditto new, 13g to 12g pm., ex div., Rotte Misland, 28 to 4 dis., and Greenwich series, 44 to 5 pm., ex div., South Eastern, 48g to 13g disc and Greenwich series, 41 chooled Mexican new series, 24g. Perchenical of triand, 41g.

Comport, 44 to 5g pm., ex div., South Sactern, 48g to 15g disc and Greenwich series, 41g, London and Westmioster, 22g, Provincial of triand, 41g.

THENDAY.—The principal business transacted to day in the English funds was

TUERDAY—The principal business transacted to day in the English funds was investment, but some sales by the East India house broker for a time triflingly depressed prices. Concols for Money opened at ng, receded to ng, and closed at mg, for the Account they fluctuated between mg and m, and closed at mg to ng.
Eachequer Hills, in consequence of purchases, rose to 6s, to se, pm., and New 3s, acc Conto. But of m at 7s.

Exchanges Bills, in consequence of purchases, rose to u, to u, pm.; and No per Cents, left off at \$2.5. Yesp little has been done in the foreign according, and the general appearants the market is finite times restorday; the sudden improvement in the value of luguese stacks, which took everybody by surprise, has not since been by any market purposed.

unly supported.

Railway shares are rather firmer, without any material alteration in price.—

hymney from Company, 25 to 41.—Colonial Bank, 34j to 4; Union of Australia.

taguess stocks, which took everyhedy by surprise, has not since been by any means family supported.

Railway charce are rather firmer, without any material alteration in price.—Rhymney from Company, 75 to 44.—Colonial Bank, 345 to 4, Union of Australia, 35 to 1.—Angle Mexicon Mint, 103.

There was not much done to day in the foreign exchanges. The rate on Parla remained the same as heat port, but Amsterdian and Hamburgh were rather higher. The premium on gold at Faris is a per milite, which, at the English Mint price of \$1.17a. intel per connec for chandral gold, given an exchange of \$B. 3*, and the suchange at Parls on London at short being 25. 40, it follows that gold is 0 de per cent, dearer in London than in Parls.

By advices from Hamburgh the price of gold is 425 per mark, which, at the English Mint price of \$M. 17a. intel, per connec for standard gold, given an exchange of 12. 45, it follows that gold is 0.45 per cent, dearer in London than in Hamburgh is 45 big. it follows that gold is 0.44 per cent, dearer in London than in Hamburgh.

WEDNE DAY, or The Connect market in the early part of the day was stationary but some purchases subsequently made by industrial broker railled prices, which classes from at a trifling advance apon vestereday. The East India Company have budgy talsed the interest of their bonds rom 3 to 3 per cent, which had improved their standing in the instrest. Connect for the store of the day was stationary to day the store their posterior and an analysis of the Account they opened at 85, reached 85, and closed 85 to 1. India Broads 1 are to been quoted at 18, and 25 dis. New 1; per Cents left of 574, and Enchance 1811 for the Account they opened at 85, reached 85, and closed 85 to 1. India Broads 1 are to been quoted at 18, and 25 dis. New 1; per Cents left of 574, and Enchance 1811 for the second and 18 dis. New 1; per cents left of 574, and Enchance 1811 for the second standard processes and the market at the conclusion of business, and the market at the conclusion of business, wit

The papers brought by the Britannie has anticipated the President, the latter vessel saited from New York see the 1th set, and has now been twenty days also a TRUCHSIAN — The artend of the President decourse has so long bone an object of analyse expectation among the tity up evaluation, that it is easy to consciou the interest that was felt on receipt of intelligence by the Britannie to a still more receipt of intelligence by the Britannie to a still more receipt of intelligence by the Britannie to a still more to examine state than the President would have brought. The news is considered to be of a decidently favour-side character, and the questions of Consola shows the action which it has had on the price of the policie securities. The advanced was a percent, which was maintained throughbest the day, the only decidenties being that there were consectiones beyons and consistence soulers at the advanced questions, which has from one of the market was accelered by frequency parchaect, chiefly of approximative characters. It should be remarked, that the decided or crutom of any news of a favourable had ind is greatly increased by the distillation of foreign securities, which has now as generally spread, so that the English famile being almost the market was always result to advance at the slighted impulse. Commiss for Money opened at the process of the sighted impulse. Commiss for Money opened at the part to a scale and the day and interest impulse. The the Agencies the regioning price was mind to be presented that the particularity facilities and left of at any to f. New My off Custa chosed at the advanced price of maintained had a particularity favourable effect.

With improved quotations the relieved market closed from — London and Membrane Bank. Part.

overd quotations the railway share market closed from ... Loudon and flank, new, ? i.

FRIDAY — the much assimation in the funds has not been witnessed for some me past as to day in the fine's Market, and prices were proportionally on the adverse. One off the Minney resolved fits, and for Account in lowers, which may be section to the last of the specialistics for the fall taking the alarm at the favour has tone of political affairs on the sate of the United States, and buying in their commits accordingly.

From the commencement of hastmore appropriation was for the rise, and an ad-

while there of politicisal affairs one the order of the United States, and beying in their accounts accordingly.

From the commencement of besieves approclation was for the rise, and an advance of meanly age could be be such that there has been a time in very consumate accordingly.

From the commencement of besieves approach there has been a time in very consumed and of their part of meanly age to the states of their part of the states of their according to the decimal way to the decimal which meanly follows an important time. There is no private for meaner the states which meanly follows an important time. The first in part care. Constraint in the states which meanly follows an important time. The rist on private for meaner a time threat facing to be an exceptance with the states about it is in just care. Constraint in the state for the account their instead of a non-time state for the states of t

LAYEST PARCES OF INITIAL STANCES.—I per Crost. Chemics, May.—1, Brack, on close New, Gas, etc. As per Close, Subsect seven to Banck Street, ive Kings Sorve Mailword, Per Brighesia, Per Salational Internet per Companies, Per Despense, Per Companies, Per Colly of Data. By Economy Companies, Per Companies, National States and Initial Street Companies, long at the Companies, Royal Street States and Initial Street Companies, Royal Street Companies, Royal Street Companies and Data. By Royal States Companies of Datas.

Whiteher Copper Sense, it artemat the set (white, it per Create, this to 11, either 1 per Create, this to 11, either 1 per Create, this to 12, either 12,

HAMBURGH, Mancu 30.—Austrian 5 per Cents., 165 money; Bank Shares, 1670 bills, 1611 money; Russian-English Loan, 1674 bills, 167 money; 5 per Cent. Hamburgh Certificates, 1624 bills, 162 money; 5 per Cents., 182 Series Inscriptions, 164 bills, 164 money; 1 Hope and Co., 3d and 34 heeries, 164 bills, 1620, in Certificates, 164 bills, Dutch New 4 per Cents., 168 bills, 864 money; Actual Debt., 25 per Cents., 495 bills, 495 money; Polish Bonds, 144 bills, New Tickets, 162 bills, Danish-English Loan, 3 per Cents., 74 bills, 73 money; 8 sanish New 5 per Cents., 164 bills, Exchanges on London —Hamburgh March 20, 184; 1 two months, 18 4; 8t. Petersburgh, three months, 38 11-16; Stockholm, March 20, seventy-five days, 11-46.

St. Petersburgh, three months, 3s 11-16; Stockholm, March 25, seventy-five days, 11 45.

LEEDS, Thunanay.—Since our last report of the market from this place we have been kept in a constant state of hope and fear respecting the news that has been daily expected from America, and now that is at last come, although it cannot be tail to be unfavourable, yet confidence is by no means re-established, n r is it likely to be unfit something positive is decided upon. As we incline to the opinion that no war will take place, we look forward to a considerable improvement in shares generally, especially in those lines that are more dependent than others on the state of the money market. Considering the present unsettled state of things, the money market wars anything but an uncheerful aspect. North Midlands here are very firm at 7st, to 7st, whilst Manchester and Leeds are weak at 2t, to 2st, dis, and if what we hear of these shares be correct, the present prices will not be unstained. Leeds and Selby are rather advancing, 9tt, can now be got for them, and we have no doubt that these shares will run up 2t, or 3t within the present month. Sheffield and Rotherham Rails continue singularly quiet, at 7t, pm ex div., whilst York and North Midlands are very strong at 7th, to 8st. Hull and Selbys are quite timid at 43tt.—North Midland Railway, 7st.; Leeds and North Midland, 7st.; Leeds and Selbys are quite timid at 43tt.—North Midland Railway, 7st.; Leed Commercial, 4t.; York and County, 8st.; York Union, 17tt.—Leeds and Liverpool Canal, 4tt., York City and County, 8st.; York Union, 17tt.—Leeds and Liverpool Canal, 4tt., York City and County, 8st.; York Union, 17tt.—Leeds and Liverpool Canal, 4tt., York City and County, 8st.; York Union, 17tt.—Leeds and Liverpool Canal, 4tt., York City and County, 8st.; York Union, 17tt.—Leeds and Liverpool Canal, 4tt., York City and County, 8st.; North Midland Railway, 19tt., Leed and Yorkshire Assimance Company, 19tt.—Leeds Commercial Buildings, 3tt.

364.—Lesda Commercial Buildings, 334.

R. B. WATSON & Co.

HULL, Tsusanay.—There has been, during the past week, no feature claiming particular remark. North Midlands have advanced. Hall and Selbys are a shade lower. Leeds and Selbys stationary. Flat and Cotton Mill shares have been done at an improvement of 1. per share [1071], and Shipping Company's at the price marked —hirmingham and Derby Railway, 724. Edinburgh and Glasgow, 344. 1 Grand South of Engiand, 454. [read Western, 2944.] Hall and Selby, 444. Leeds and Selby, 904. Liverpool and Manchester, 1884. [London and Hirmingham, 1844.] Manchester and Leeds, 494. Midland Country Sank, 364. (Vorkshire District, 744. Sunderland Joint Stock, 444.—Hull Dock Company, 1704.—Hull Shipping Company, 104.—Hull Flax and Cotton Mills, 1971.

ERISTOL, Tuvanoay.—The American news received by the Brilsonies steamer not being of a declaive character, our market remains stationary, but form at my quotationa.—Great Western R. Ewsy, 244. to 294. [1 ditto Ribs, 1941. to 1944.] Bristol and Exeter, 344. to 354. [2 Chettenham Union, 284. to 374. [2 Chitton Gas., 284. to 294. [2 Chitton Gas., 284. t

244.; Birmingham and Gloucester, 78. to 79.—Bristol Gas Company, 22. to 34.; Cilton Gas, 78. to 79.

EDINBURGH. Trunsbay. Grand Junction Railway, 204.; Liverpool and Manchester, 186.; London and Birmingham, 152.; Great Western, 96.; Edinburgh and Glasgow, 34.; Edinburgh, Leith, and Newhaven. 4. 18a. 54.; Dalkeith and Edinburgh, 26.; Glasgow and Greenock, 224.; Glasgow and Garakirk, 28.; Glasgow and Ayrshire, 38.; Wishaw and Coltness, 76.; Dundee and Arbrasth, 274.; Arbrowth and Forfar, 24.

LIVERPOOL, Taunsbay.—We have had a very steady, and gradually riding market during this week, without much business being done; a few speculators have maintained the prices, but perchasers have not freely come forward. The news from America, by the Britanses, has not caused any effect, we must wait the next arrival, which will be more decisive.—Chester and Birkenbead Railway, new shares, 164.; Eastern Counties, 324.; ditto debentures, 74.; Glasgow, Paskey, and Gireroock, 294.; Grand Junctin, 2. 34.; ditto half shares, 1624.; Glasgow, Paskey, and Gireroock, 294.; Grand Junctin, 2. 34.; ditto half shares, 1624.; Glasgow, Paskey, and Gireroock, 294.; Grand Junctin, 2. 34.; ditto half shares, 1624.; Glasgow, Paskey, and Gireroock, 294.; Grand Junctin, 2. 34.; ditto half shares, 1624.; Glasgow, Paskey, and Gireroock, 294.; Grand Junctin and Shareston and Birningham, new thirds, 7344.; London and Birghton, 444.; London and South-Western, 334.; Gosport Extension, 424.—Union Bank, 194.

ANCHESTER Turnsbay.— here is no material Mercelon in the state of this

SIANCHESTER, THURSDAY.— here is no material alteration in the state of this market. Manchester and Leeds, 674.; ditto, balves, 294.; London and Birmingham, 1541.; Leicester and Swannington, 5414.; Ed nburgh and Ghagow, 344.; Liverpool and Manchester, 1844.—Manchester Assurance, 91.—Manchester and Liverpool Pistrict Bank, 164. 18a. 26.

BIRMINGHAM, THURSDAY.—London and Birmingham Railway, 1554.; Great Western, 2544. pm., London and Bouth-Western, 2544. to 3544.; London and Birighton, 64. dis., Eastern Counties, 1444. dis.; Birmingham and Derby, 294 to 274. dis., Birmingham and Gloucester, 244 dis., 18triated and Kater, 244. dis.; Cheltenham and Great Western, 544. dis.; Gosport Junction, 54. pm.—Midland Counties Herald. ham and Great Western, 24th use; compressing the Weekly Liabilities and Assets, BANK OF ENGLAND.—Quarterly Average of the Weekly Liabilities and Assets, from the 4th of January, to the 20th of March, 1841, both inclusive:—

Circulation. #16,337,006 Deposits 7,213,009 #16,667,000 £23,749,000

EXPORTATION OF GOLD AND SILVER.—By the official return publish the Customs, the expect of the precious metals from the port of London to for and cuionial ports, for the week ending thursday, the 75th ult., was as under Silver coin to Hamburgh. 280,000 cannon cuionial ports, for the week ending thursday, the 75th ult. was as under Silver coin to Hamburgh. 17,000 cannon cannon cannot be a second coin to Culais. 100,000 cannon cannot c

BALE OF COPPER ORES AT POOL

Sampled March 17, and sold at Serpell's, Pool, April 1.

Mines.	Tues		Pric		Purchasers.	Mines.	Tons.	1	rrie	•	Purchasers.
E. Crofty	. 92	 3	3	6.	Williams.	East Pool	. 90	7	3	6.	English Co.
alick Box			2	d	Viviana.	ditto	MI	3	1.9	sã.	Williams.
d Rtio	42	4	2	4.	. Williams.	ditto	79	- 6	1.0	8.	Freemans.
ditto	74	 3	10	6.		ditto	48 .		1		merces.
of it fan	72		10	4.		ditto	28	*			Vivians.
ditte	9.5	6	1.0	16.	Freemans.	Fower C.	100 .	-6	1.3	A.	Nevil & Co
ditto	62	 2	2	6.	Williams.	ditto	mB		16	4	Virians.
alit fin	3.2		16		Viriana.	ditto	86	3	2	46.	-
diffu	51	1		a.	200.00	Stray Pari		- 6	16	6.	Williams.
d Him	49	4	13	ď.	Williams.	diffre	374	3	14	a.	Nevili & Co
ditte	41	6		6		diffe	37		1.5	6.	Williams.
Longelous	48	2	19	10.		S. Basset	64	12		10.	Nevill & Co
ditte	43		4		P. Grenfella.	ditto	45	2	14		Williams.
Dolesath .	. 102	2		81.	Williams.	dillo	30	4	1.8	8.	THE REAL PROPERTY.
diffu	41	1	11	10.		West Jew		3	2	4.	Nevill & Co
diffee	43		14	4.	Viviane.	ditte	47	10		6.	Mines Roys
distre	45			0.	_	ditte	1.0	2		6.	-
differ		2		10.	Nevill & Co.	Carsiss	.74	6			Viviana.
differ	40	3	2		Viriana.	ditte	1.8			6.	Messac
United 18			1	4.	-	W Harris	1 2	3		4.	
diff to	16.0				Section.	W. C. Liffteen	4 24	9	4	ü.	Mines Roys
ditte	22		18		English Co.	dittes	pt	9		8.	Nevill & Co
ditter	41	12	1.3	10.	Fremans.	W Apartur	· 164	ā	14	6.	Mines Sura
ditte	48	8		6.	English Co.	ditto	164.		4	6.	English Co.
district	1.8	4		6.	Viriana						-

dittse	23	. 8	6	Englis	alt.	Co.	ditte 164.	8	4	6 K	aglist	A CI
ditto	1.8	. 1	6.	Viria	OR B							
							RODUCE.					
East Wh.	Crosty	1		-			Scoth Wh. Sasset	1.5	١.		1543	14
L. mgchae		1100		-	•		West Wh. Jewel	LON	۶.		2.00	1.0
Dislocation		98.8		LINE			Carsine	166			3.79	
							Wh. Harriet				279	
Sant Pord				21.00			Wh. Clifford	3.	2 .			19
Power Cos	-	-674		1834	14		Wh. Sparrow	83			168	1.0
Steam Park												

Average standard, 1/4: 4s. Average produce, 7.—Average price, 3.1 fbs. od.
Quantity of res, Not hose. Quantity of fine copper, 188 hose 5 cwt. Amount
comey, 16,046. 7s. od. Average standard of last sale, 1/41. ics.—Average Pr COMPANIES BY WHOM THE ORES WERE PURCHASED.

Minor	Box all yourse property and the second	D. 4		504		3	
English	Couper Company	200mg		5284	- 8		
Victoria	and home	80.2		ACCOM.	14	*	
Freema	or and Co.	B 13		Lighter	à.		
Chromies	2 and Sons	42		218			
Bronn, W	Cityana, Neville, Druce, and Co	BUSA	*******	23 . 2	14	4	
William	is, Funter, and Co	8814		Agree	1.6		
		-			-	-	

Total Total Policy of the Advance of

BALE OF BLACK TIN,

Sold on the pith of March, at Preculpus Muse, From Price. Assumed. Purchance.

COPPER ORES SMILTED BY THE MINERS' COMPANY.

Copper Over Smolled, by contract, by the Governor and Company of Copper accors in England to the Sixt March, from the undermonitoned miner:

regulated to the 31st meaning.	Land the explicati	THE SHARE						
Misses.	Real Weight.							
Carb Brea Misses.	204 (3)	1.00						
S DUS 's Scholare.	20: 1	-1						
Cit-shripitos	0.67 %	2						
E'sellered	268 12							
Witness Flexible		(6)						
When Parlinghia	110'0 18							
When there exists	13 8							
B) ('ne's Common		3						

The roll | Treat | creat | Armage produces | | Motal List hos. .

SALE OF COPPER ORES AT SWANSEA

per cree for sale April 7.—Cohre 90, ditto 47, ditte to 91, ditto 96, ditto 90, ditto 70, ditto 10, ditto 1 i32, ditto 87, ditto 87, ditto 74, ditto 67, ditto 33, 5, ditto 38, ditto 64, ditto 87, ditto 36—Cuba, 66, to 16—Cronebase 10—Total, 2147 tons. litto ?", ditto 6°, ditto 29 – Ki litto 33, ditto 27 – Chili 106, dit ba, 66, ditto 57, ditto 16—Ti

PRICES OF MATERIALS IN CORNWALL

9 /	A 10	111	A12	,	A 100	114	A 12
Common iron, per cwt #			64	fron-wire sieves, each 2:		20	84
Half-inch square ditto 9	10	111		fron-wire work, per foot a			
Best tough whim chain 29		30		Board nails, per rwt 19		17	
Boiler plates	0	113	6	Half-board ditto,per 1006 5			
Hoop iron				Hatch ditto 3		2	
Nail rods	6	12	6	Half-hatch ditto 3	0	8	
Miners' shovels 32		32		Linseed oil, per gallon ?		2	
Charcoal iron		18	6	Kape ditto &		3	3
Gunpowder, per 100 lbs 40		40		Birch, per foot 1		1	7
Leather, per Ih 1		1	10	Pine, 1		1	
Coals, per ton, at quay 16		12		Sheet lead, per cwt 21		21	
Candles, per dozen tha 6	0	5	9	Barrow bends !!		1.4	
Tallow, per cwt	6	52		H 2 steel (1121bs.) 32		39	
Ropes		346		2s. nails 16		16	10
Flat ropes		50	0	Pick hilts 1	6	I	6
Hemp 0		-	44	Shovel hilts 1	9	2	
White yarn, per cwt 37		37	0	White ground lead 25		28	
White rope 33		34	0	Red lead		25	
Brass-wire sieves, each 3	7	3	9	Best rolled iron []		1.1	6
Ditto machine 13	100	18		Blistered steel 40	9	40	0

LATEST CURRENT PRICES OF METALS. LONDON, APRIL 2, 1841.

	-	4	4.14
laun, EngBar fon 0 0 0 to 8	85	0	Corres - foreign (dy. 27s.)
Do. Carg. in Wales ?			1 in pritBlocks cet 4 2 f
Hoops fon 10			Bars do. 4 4
Sheets, fon il			Banca 0 0 0 to 3 15
Pig, No. 1 fon 5		0	Straits 0 0 0 to 3 14
Do. in Wales 4			Tin Plates-t.c. (box)1 :1 0 to 1 14 0
oreign- (Swedes, cn. 6d. fon 14	3	10	1.x. do 1 17 0 to 2 0 4
Russian com for 14	10		Others in proportion.
Duty 30s. P.s.t fon 15	15	49	Leap, Brit Pig fon 20 10 6
per ton. C.C.N.p. fon 18	10	0	Sheet fon 21 10 6
Tast, Eng. Blistered, 25 0 0 to 45			Shot for 22 10 .
shear do. do. 45 0 0 84			Red fur 21 10 0
Cast do. do. 45 0 0 84		0	White (dry) fon 26 10 0
Foreign- Sweden in kgs 6d ton 20			Do. (gd.in oil) for 24/ a 26/
Duty 20 Do. Faggots &d. fon 21			Foreign-Span. (dy. 40s.) . 19 15 0
per cent. [Milan bd. fon 0			SPELTER U g 0 to 16 10 .
.orean, mritLake fon 100			For delivery 0 0 0 to 25 in 0
Tile do. 98			English Sheets 354 a 414
Sheets ib. 1; \$4	to	in	Quicastivas- dy. id. per lb. 0 3 11

REMARKS.—Iron, steel, and copper, steady.—Tin, heavy.—Tin plates, firm.— Lead, dull.—Speiter, firm.—Quicksilver, steady.

COAL MARKET, LONDON.

MONDAY.—Price of coals per ton at the close of the market:—Adair's Main 17.

-Blardon 15.3—Hepburn is 6—Original Windsor Pontop is—Smith's Postop is—
Tanfield Moor 26.—Wydam 17.—Wall's Ecol Bewicke and Co. 26.6—Goodforth 26.6

Hotspur is—Kittingworth 79.—Riddell's 20.3—Walker 20.3—Belmont 21.9—
Hedily 16.—Hawwell 12.9—Hetton 22.9—Lambton 72.9—Russell's Hetton 22.9—Stewart's 72.9—Howden Hartlepool 20.—Whitwell 21.—Caradoc 22.9—Kelloc 22.6—
Seymour Hartlepool 29.—Adeciade 21.9—Seymour Trees 26.—South Durham 26.6—
Tees 22.—Wilton Fark 18.—Hartley 18.6.—Ships arrived, 131.

WEDNERDAY.—Adel-Main 22. Decreased, 154.

WEDNESDAY.—Adair's Main 17—Derwent 16—Hepburn 16—Holywell 18— few Garesfield 15 3—Ord's Redbeugh 15 n—Wylam 16 9—Wall's End Hilda 19 6—Northamberland 18 6—Hell 19 6—East Hetton 29 6—Pemberton 29 6—Haswell 29—Hetton 27 9—Lambton 27 9—Stewart's 22 9—Howden Hartlepool 29—Gordon 8—Tees Hetton 18 6—Howard's Netherton Main 16 9—Worsborough Park 16—Devouchire 19.—Shipe arrived, 41.

Devouable 19.—Shipa artived, 41.

FRIDAY,—Bell Robson's Harthey 12.—Helywell Main 18.—Smith's Postop 15.6.—
Wylam 16.9.—Wall's Rad Cleonell 16.—Gosforth 20.—Heaton 19.6.—Hilds 19.—Klilingworth 18.6.—Bresbyl's Hetton 21.9.—Hawell 2.—Hetton 22.—Stewart's 2.—
North Hetton Lyon's 19.6.—Lambton 22.—Russell's Hetton 21.9.—Caradoc 22.5.—
Hartlepool 22. Kaise 21.9.—Adelaids 21.6.—Kvenwood 17.—Hartley 18.—Howard's
Netherton Main 16.3.—Devouabler 18.—Shipa arrived, 70.

PRICES OF MINING SHARES.

Shares	BRITISH MINES. Paid. Price	Shares. BRITISH MINES. Paid. Price
300	Anglesey 5 8	4,000 United Hills \$ 9
4,000	Bissoe Bridge 5 1	6,000 Wicklow Copper 5 . 104
8,000	Blackavon 45 48	3,845 West Wheal Jewel # 44
20,000	British Iron 60 64d	1,000 Wheal Julia 44
100	Copper Bottom 41 30	3,300 Wheat Leeds 4
2,000	Cornubian Lead Co 34 1	FOREIGN MINES.
	Cornwall Great United 104 1	
1,000	Cuddra 10 1	5,000 Alten Mining Company 124 11
	Duftmoor Consols	10,000 Auglo Mexican Co 100 14
10,000	DurhamCountyCoalCo. 37	5,374 Do. Subscription 25 1
1,000	Danescombe 24	2,000 Holanos
2, then	De Dunstanville	Ditto Scrip 15 174
	Duffield	10,000 Brazilian Imperial 20 . 5 7
	East Mulberry Hills 34 1	10,000 Bolivar 20 1
	Great Wh. Prosper 74 64	10,000 Ditto Scrip 10 . 2
	Great Wh. Charlotte 3 1	10,000 Cata Branca Brazilian 64 7
	Hibernian 124. 3	10,000 Conceição Co. 4
	Hoimbash	12,000 Cobre CopperCompany 40 31
	tele of Sark Guermany 164., 13	5,500 Colombian Co. regis 55 2
	Mining Co. of Ireland 7 164	0,000 Copiapo Mining Co 134 . 94
	Polbreen 4 . 1	10,000 General Mining Asso. 18 3
	Religion	s,851 Mexican Company is 24
	Resimone Consolidated 5 /	12,000 Mocanius and Cocaes ,a 6
	Rhymney iron 50 23	14,582 Real del Monte, regis. 134. 24
	South Towan 10 1	Caro, marreguateres 18
	Tregolian	Ditto Loan Notes ibe 160
	Freieigh Consols 41. 14	7,000 Royal Santia, 0 10 . 15
	Tumar Consois 3 2	11,000 St. John d'el Rey 146 24
	Tin Croft 44 44	50,000 United Mexican 40 24
	Frevankus	Black Scrip, addl capital 5 3
200	Tretoil	Red New Scrip 4. 4

Line.	Entire Leth.		Cont.			Last week's Returns.		
Birmingham & Derby June.	44	361	#1,404,898	Lue	710	1006		
Birmingham and Girncester	516		1,766,064	100	76	LEAR	9 10	
Dunder and Arbroath	14	16	134.104	7.8	27	210		
Eastern Counties*	1264	174	7,133,553	23		1.79		
Glasgow and Arr	5.0	40	1,453,606	40	39			
Ginagow and Paintey Joint	64	4.0	250,008	2.5	234	256 1	2 .	
Grand Junction	574	90'4	1,906,000	Loss	204	7968		
Great North of England	24	43	1,500,000	900	65	294		
Great Western	217	82	1, 10, -00	68	924	61.03		
Hull and Selby		5.1	\$53,181	140	454	640		
Lancaster & Preston June.	2004	204	Alak, more	424	314	461 1	1 11	
Liverpool and Manchester	31	.81	1,673,000	100	1994		5 11	
London and Birmingham	1129	1124	1, Jan. B. o.	90	1354	14166		
London and Black wall	34	11.6	841 ,0000	28	194	500 1		
London and Brighton	414	34	1,470,000	34	41	117		
London and Chardon	104	104	714, mid	158	1+1	584 I	7 04	
London and Greenwich	54	5.2	1,573,600	26	73	995 1		
London and South Western	90	764	2, 360, 1000	584	So.	Deb. I		
Manchester, Boilton, & Bury		le l	K.&C, 0000	9.	5.8	87 6 11		
Manchester & Birmingham	45.	8	2,800 (1980	40	234	Dell 1		
Monohester and Leeus	246	10	2,596,466	74	56	3476		
Paryport and Cartisle	296		281,000	340	47			
Midland Counties	2	8.2	1,885,860	1646	48	pedia 1		
Newcostie and Carthile	Serie 1	M.16	730,000	100	167	1544		
Northern ami Eastern 14	F94	194	1,290,200	34	310	818		
North Miniamiz	224	720	2,000,000	100	27	Spine 4		
North Casses	25	13	\$7.5,×600	.73	-	100 1		
Preston and Wyre	150	274	286.4, 2500	340	348	249 1		
th Sold and Rotherham	34	De.	2100,0000	25	31			
Clairer	39		(Exc., 1986)	224	200	100		
fork and North Micland	23	28	275,568	50	794	ELRE		

Incoming Northern and Eastern Railway buil.
 Net hors, \$100.1 (s. 74.)
 Excitosive of the Manchester and Leeds tod.
 The Liverpool and Manchester foli-deducted.
 If Reich and buil to Eastern Counties (about 1361, per week) included in the reterior.

METEOROLOGICAL JOURNAL, 1841.

									Wigor. S.	A117.00	0.00	50.0	- M-10
Phored	138	£16004	778	to 1,7	305,616	300	25,82	Montag	Ex.	45	. DK	275.46	20.77
Freday.	(36)		100	82	200, 11,2	-	29,14	Trendan	308	316	. k7	19.71	20.64
and some	12		M	_ DE	19,52		29,62	Wednes.	58	 34	5.5	19.19	20.16
Bounda.	216	11.00	259	. 30	25,66		200,000				-		2000

On the 16h, morning overcost, is hereine clear; the 27th, processly clear, rais in the afternoon, the 2.th, morning cloudy, otherwise clear; the 28th, processly clear, the 28th control of 28th, processly clear, the 28th closely, raining very but facing the evening; the 2.th, morning clear otherwise clearly, a lattle issue to the afternoon; the 2.th, morning clear otherwise clearly, raining impossibly clearing the evening.

Rain fallows 12th of an inch.

London: Principle and Published up Marine Everies, the Propositive at the Office. No. 17, New Street-Street, in the city of London: where all Communication and Astrocommunication are requested to be for warded, post-paid. [April 5, 1941.